



**Motion Control Engineering
11380 White Rock Road
Rancho Cordova, CA 95742**

voice 916 463 9200

fax 916 463 9201

www.mceinc.com

**User Guide,
iMonitor v1.5**

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Important Precautions and Useful Information

This preface contains information that will help you understand and safely maintain MCE equipment. We strongly recommend you review this preface and read this manual before installing, adjusting, or maintaining Motion Control Engineering equipment. This preface discusses:

- Safety and Other Symbol Meanings
- In This Guide

Safety and Other Symbol Meanings



Danger

This manual symbol is used to alert you to procedures, instructions, or situations which, if not done properly, might result in personal injury or substantial equipment damage.



Caution

This manual symbol is used to alert you to procedures, instructions, or situations which, if not done properly, might result in equipment damage.



This manual symbol is used to alert you to instructions or other immediately helpful information.

In This Manual:

This manual is the installation and operation guide for the iMonitor monitoring application. When viewed online as a pdf file, hyperlinks link to related topics and informational websites. The manual includes:

- [Contents](#): Table of Contents. When viewed online as a pdf file, hyperlinks in the Contents link to the associated topic in the body of the manual.
- [Section 1](#). iMonitor general description and installation instructions.
- [Section 2](#). Quick Start: Quick instructions for getting started using iMonitor.
- [Section 3](#). Reference: Detailed explanation of screen controls.
- [Index](#): Alphabetical index to help you find information in the manual. When viewed online as a pdf file, index entry page references are hyperlinks to the associated information in the manual.

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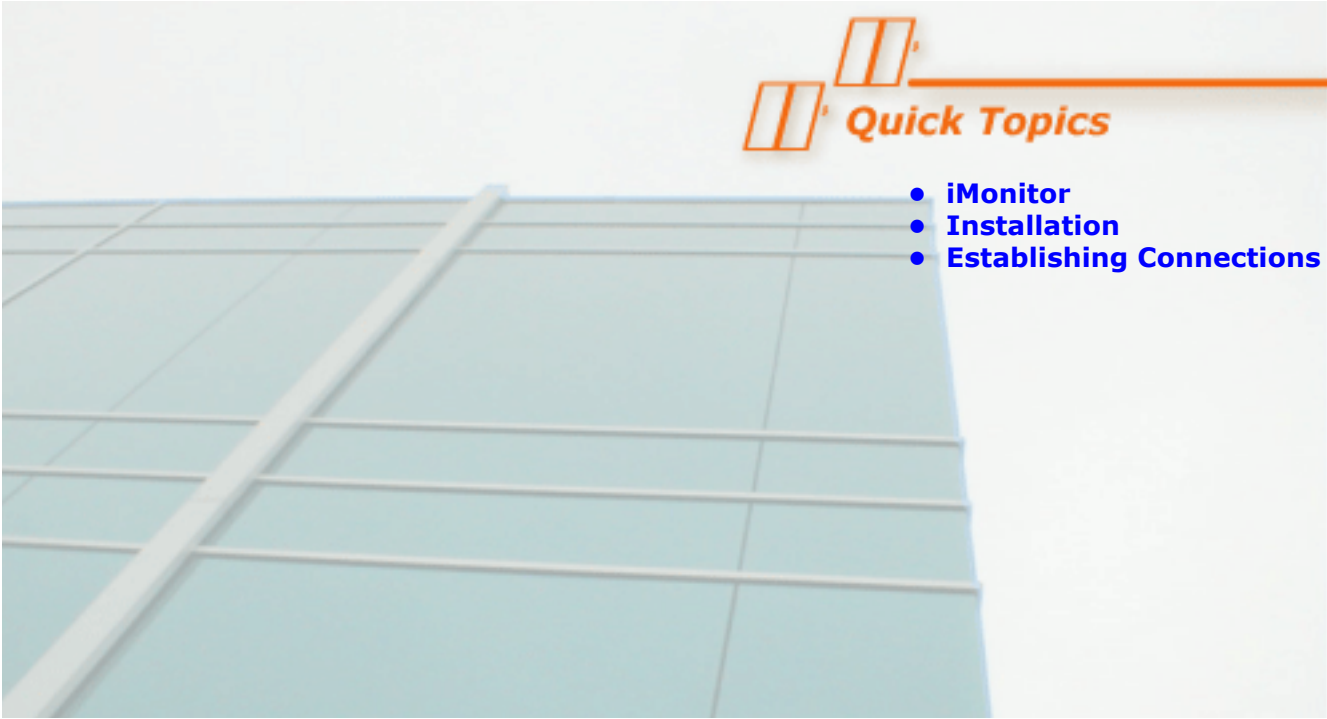
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Quick Topics

- **iMonitor**
- **Installation**
- **Establishing Connections**



iMonitor

1

iMonitor

iMonitor is an elevator, escalator, and moving walk monitoring application that allows local or remote viewing and control using a personal computer running the Windows operating system. iMonitor connects to controllers through a local area network or remotely through Internet technology.

iMonitor provides a graphical representation of building transportation groups, allowing their activity and status to be quickly and easily viewed. The user defines any number of "Connection Sets." Each Connection Set consists of up to fifty connections to transportation group dispatchers selected by the user.

When working in iMonitor, the user simply clicks on a Connection Set which automatically establishes communication with all groups in the set and displays their associated hoistways and cars or steps/belts on the computer screen. Practical viewing limits are established by the speed of the connections and the size of the (16 x 9 aspect) monitor viewing area.

Through iMonitor, you may register car and hall calls, control many group security functions, and enable or disable certain operating modes (if these functions are supported by the controller with which you are communicating). There will be differences in the extent of control available depending on controller type and model.

Non-iControl Limitations

iControl systems provide sophisticated processing and communication support for iMonitor and iReport applications, allowing them to use the full capabilities of the monitoring and reporting systems. Other controllers report limited information through more simple means and therefore cannot support many iMonitor and iReport capabilities. The table below lists iMonitor features and support provided by the latest iMonitor release. A blank cell indicates the feature is not yet supported.

Table 1.1 iMonitor Features and Support Per Controller

Feature	iControl	USN Enabled MCE Controls			Motion Elevators	Motion Escalators
		PTC/PHC	IMC	Third Party		
Security						
Security Alarm Setup	•	•	•			
Security Alarm Status	•	•	•			
Local Security Status	•					
Remote Security Status	•					
Security Configuration Assignment	•					
Security hardware override enable	•					
Hall call, Per floor security	•					
Hall call, Secured floor parking enable	•					
Hall call, Partially locked floor parking enable	•					
Hall call, Per car lock out	•		•			
Car call, Security configuration assignment	•		•			
Car call, input latch timer	•					
Car call, mode override per configuration, per signal	•					
Car call, general pass code characteristics	•					
Car call, per floor/opening passcode assignment	•					
Car call, passenger setup	•					
Remote security provider assignment	•					
Credential reader configuration	•					
Active security map display	•					

Table 1.1 iMonitor Features and Support Per Controller

Feature	iControl	USN Enabled MCE Controls			Motion Elevators	Motion Escalators
		PTC/PHC	IMC	Third Party		
Emergency Alarms						
Alarm configuration	•	•	•	•	•	
Emergency alarms status display	•	•	•	•	•	
Emergency alarm per car enable/disable	•	•	•	•	•	
Per Car Status Display						
Per Car Status display setup	•	•	•			
Car status display & acknowledgment	•	•	•			
Per Car Settings						
Recall Floor Assign	•		•			
Recall to Lobby	•	•				
Recall, car call disposition, Answer	•		•			
Recall, car call disposition, Cancel immediately	•		•			
Recall, car call disposition, Cancel next stop	•					
Action at floor, Out of service	•		•	•		
Action at floor, Independent service	•	•	•			
Door action at floor	•		•			
Resume service timer	•					
Per Car Activation						
Auto-stop	•				•	
Emergency Alarm	•					
Sabbath Operation	•					
Swing Operation	•					
Active Shooter	•					
Group Settings						
Mode Assignment	•					
Flood Op Activation	•					
Silent Mode Activation	•					
Group Timer Tables						
Hall Call Eligibility	•					
Parking	•					

Table 1.1 iMonitor Features and Support Per Controller

Feature	iControl	USN Enabled MCE Controls			Motion Elevators	Motion Escalators
		PTC/PHC	IMC	Third Party		
Parking Eligibility	•					
Mode of Operation	•					
Security	•					
Remote 1 - 4	•					
Active Dispatch Engine	•					
Silent Mode	•					
Job Information	•	•	•	•	•	•
Per Car Diagnostics						
Car Operation	•					
Front Door/Gate	•					
Rear Door/Gate	•					
Motion Flags	•					
Motion Flags, Basic Automatic	•					
Motion Flags, Detailed Automatic	•					
Motion Flags, Basic Inspection	•					
Motion Flags, Detailed Inspection	•					
Drive Flags	•					
Safety Flags	•					
Network Diagnostics						
Connected Applications 1 - 4 Information						
Application	•				•	•
Company	•				•	•
IP address	•				•	•
Port Number	•				•	•
Connection Time	•				•	•
Write Privilege	•				•	•
Time Remaining	•				•	•
Security Access	•				•	
Security User	•				•	
Views						
Campus View	•	•	•	•	•	•
Overview	•	•	•	•	•	•
Detailed View	•	•	•	•	•	•
Multiple Hoistways	•	•	•	•	•	•
Lobby View	•	•	•	•	•	

Table 1.1 iMonitor Features and Support Per Controller

Feature	iControl	USN Enabled MCE Controls			Motion Elevators	Motion Escalators
		PTC/PHC	IMC	Third Party		
Configure Sabbath Operation						
Enable/Disable	•					
Enable/Disable hall call service	•					
Enable/disable car call service	•					
Finish existing car calls on entry	•					
Enable/disable nudging	•					
Set recall floor	•					
Set service direction	•					
Set return floor	•					
Trip interval timer	•					
Door open timer	•					
Arrival lantern enable/disable	•					
Enable/disable car call button indicators	•					
Enable/disable position indicators	•					
Enable/disable load weigher	•					
Enable/disable COP door buttons	•					
Select sabbath operation doors/floors	•					
General						
Show ETA	•					
Show Wait Times	•					
Show Next Destination	•					
Show load weight	•					
Show current floor	•					
Show travel direction	•					
Show operating mode	•					
Show hall calls	•					
Show car calls	•					
Show connection status	•	•	•	•	•	•
Show in-group status	•	•	•	•	•	•
Configure display settings	•	•	•	•	•	•

Installation

Installing iMonitor includes:

- Determining hardware requirements
- Installing monitor software
- Establishing connections

Determining Hardware Requirements

iControl, Motion 4000, Motion 2000, and Motion 3000ES controllers are Ethernet ready from the factory, if so ordered. MCE IMC and PTC/PHC controllers require additional hardware.

- IMC (v4.0 and later): Requires an MC-USN (Universal Serial Networking) board and a power transformer. Kit available from MCE.
- PTC or PHC: Requires an MC-USN (Universal Serial Node) board, an MC-M2C (MCE to CAN bus converter) board, and a power transformer. Kit available from MCE.

If you want to connect to an IMC, PTC, or PHC controller, please contact MCE for the appropriate kit and installation instructions.

Installing iMonitor Software

If you purchased your iMonitor PC through MCE, iMonitor has already been installed. If you need to install iMonitor software, make certain that the PC and monitor meet minimum requirements:

-
- Operating System: Windows 10 64-bit
-
- Processor: Intel Celeron 2.0 GHz or Intel i3 Dual Core (recommended)
-
- RAM: 4GB or 8GB (recommended)
-
- Ethernet Port: 100/1000 capable
- 1280 x 1024 capable monitor, 17" diagonal display minimum (* see note)
 1. Uninstall any previous versions of iMonitor. (See Old Versions below.)
 2. Download the iMonitor program and copy it to the computer desktop.
 3. Open the iMonitor folder and double-click on the LaunchSetup.exe program.
 4. Follow on-screen instructions.



Note

View Only: The View Only installation option will install a subset of iMonitor that allows viewing but does not allow control options to be exercised.

Old Versions

If you have an older version of iMonitor already installed on the computer, use the Add/Remove Program function from the Windows Control Panel to remove it before installing new software.

Establishing Local Connections

The iMonitor PC may be connected to individual or group controllers locally or remotely through the Internet. Connection information for iControl is provided in this section. If you are connecting to a different controller type, follow the instructions included with the hardware interface kit or controller instruction manual.

MCE iControl Ethernet

MCE iCue elevator group controls use two local Ethernet networks. The first of these, the System network, is only used for immediate elevator traffic control. No PC or other non-iControl/iCue connections may be made to this network. This network uses orange cabling to set it apart from the second, iView network (blue cabling).

The iView network provides the point of connection for both iView and other PC or network related equipment. You can identify the Ethernet switch for the iView network by checking:

- The switch is labeled “LAN.” Connections from the switch to the individual iControl elevators in the group are plugged into the #1 = LAN connection on the iControls.
- The iView PC for the group is connected to this switch.
- The connection from the switch to the iCue Group control is to the group control LAN connection.

The factory-default TCP/IP information for an iCue/iControl elevator group is:

Table 1.2 System, LAN, & 3=PC TCP/IP Addresses

switch	Group ID	Group IP Primary & Backup	Car ID	Car IP	System/Serial Hall Call Bus 1 - 4	Free
LAN	1	192.168.191.201-202	1-20	192.168.191.001-020	192.168.192.211-214	192.168.191.101-200*

* The iView PC typically uses 192.168.191.101

The default Subnet Mask for all ports is 255.255.255.000.

The default Gateway for the #1 (LAN) is 192.168.191.254.

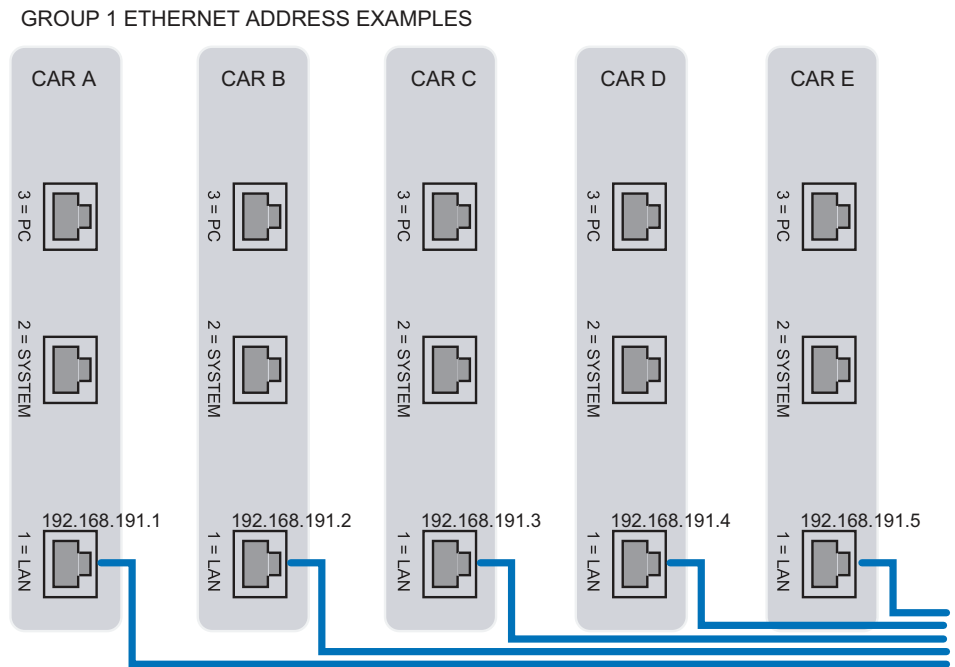
Authorization

Before iMonitor is allowed to view and control an iControl system, authorization for the connection must exist within the system to be monitored. If you attempt to connect to an unauthorized system, iMonitor will display an authorization required message. For iControl systems, authorization is configured through the iView application:

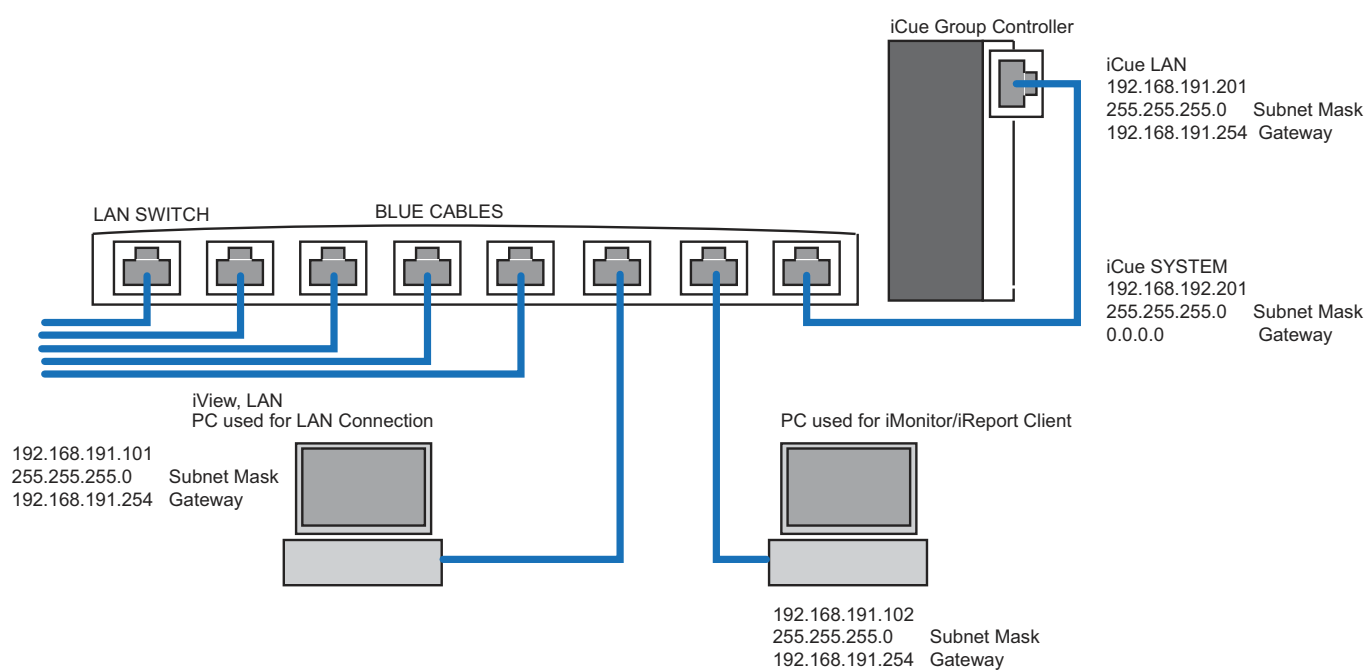
1. Connect to the system to be monitored using iView.
2. iView/System/Remote Monitoring Authorization.
3. The Remote Monitoring Authorization screen displays a hardware key unique to the system.
4. Contact MCE Customer Support at 916 463 9200 and provide them the hardware key.
5. MCE will provide you with an authorization code.
6. Enter the authorization code on the iView Remote Monitoring Authorization screen

The illustration below shows a single, typical iCue/iControl group with a locally connected iMonitor PC.

Figure 1.1 Typical iControl LAN Connections, Elevator Group 1



1



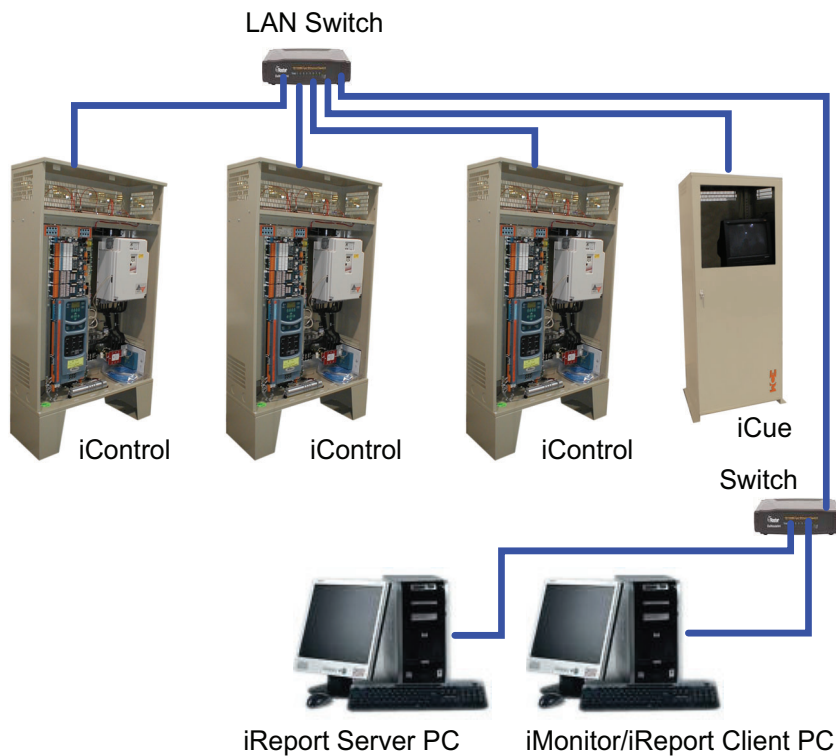
iControl Local Connection

Local connections are those not requiring a VPN.

One Group

The following illustration shows a same-site iMonitor installation for a single group.

Figure 1.2 Local Connection to Single Group



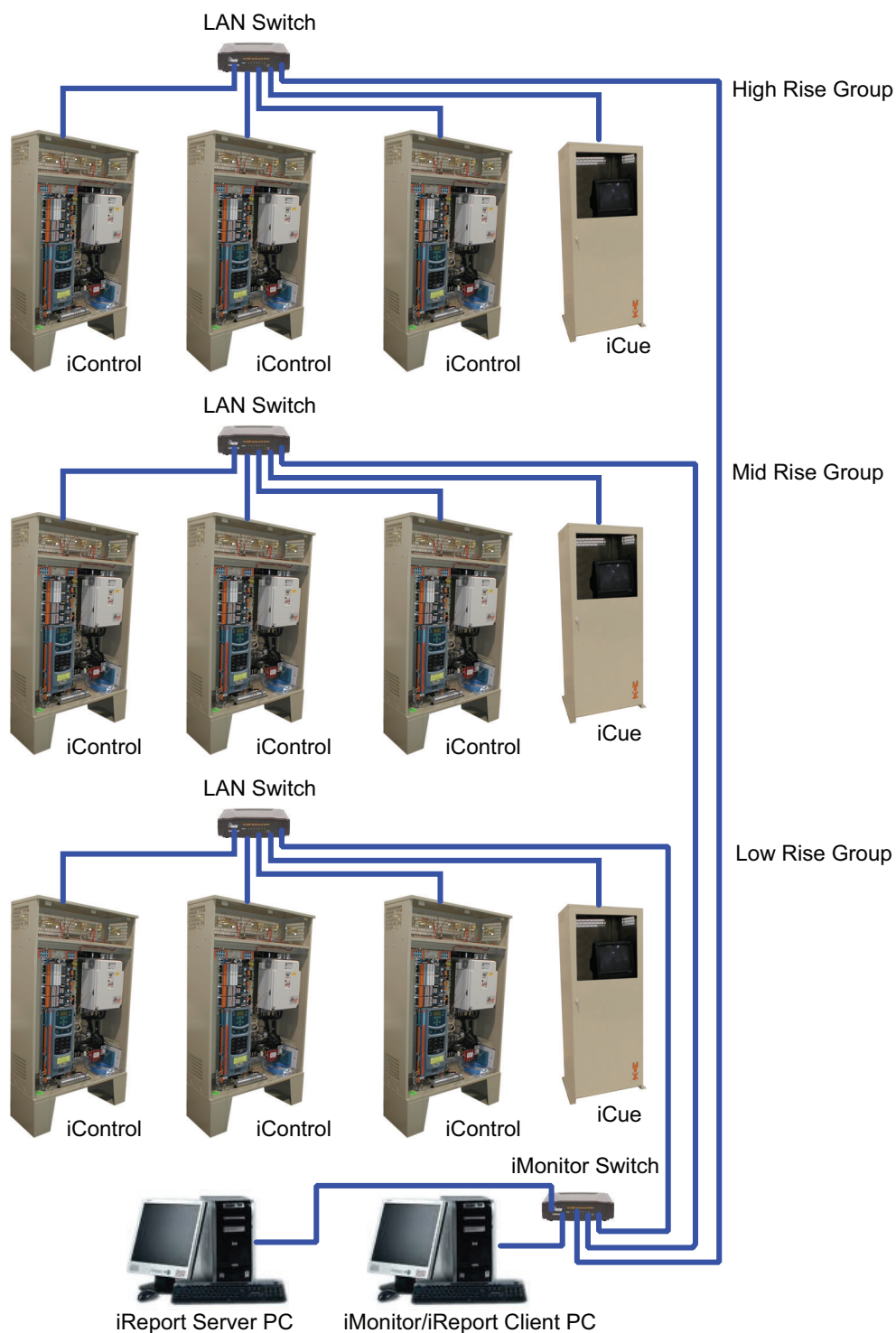
1

Restrictions

- No single Ethernet cable may be longer than 100m (330 feet).
- If any single cable run will exceed 100m, an Ethernet hyperextender or fiber-optic to Ethernet converters must be used.
- All IP addresses on an interconnected network must be unique.
- Use shielded CAT 5e or CAT 6 STP (shielded twisted pair) cable and follow all manufacturer recommendations.

Multiple Machine Rooms / Dedicated Elevator LAN

Figure 1.3 Multiple Machine Rooms / Dedicated Elevator LAN

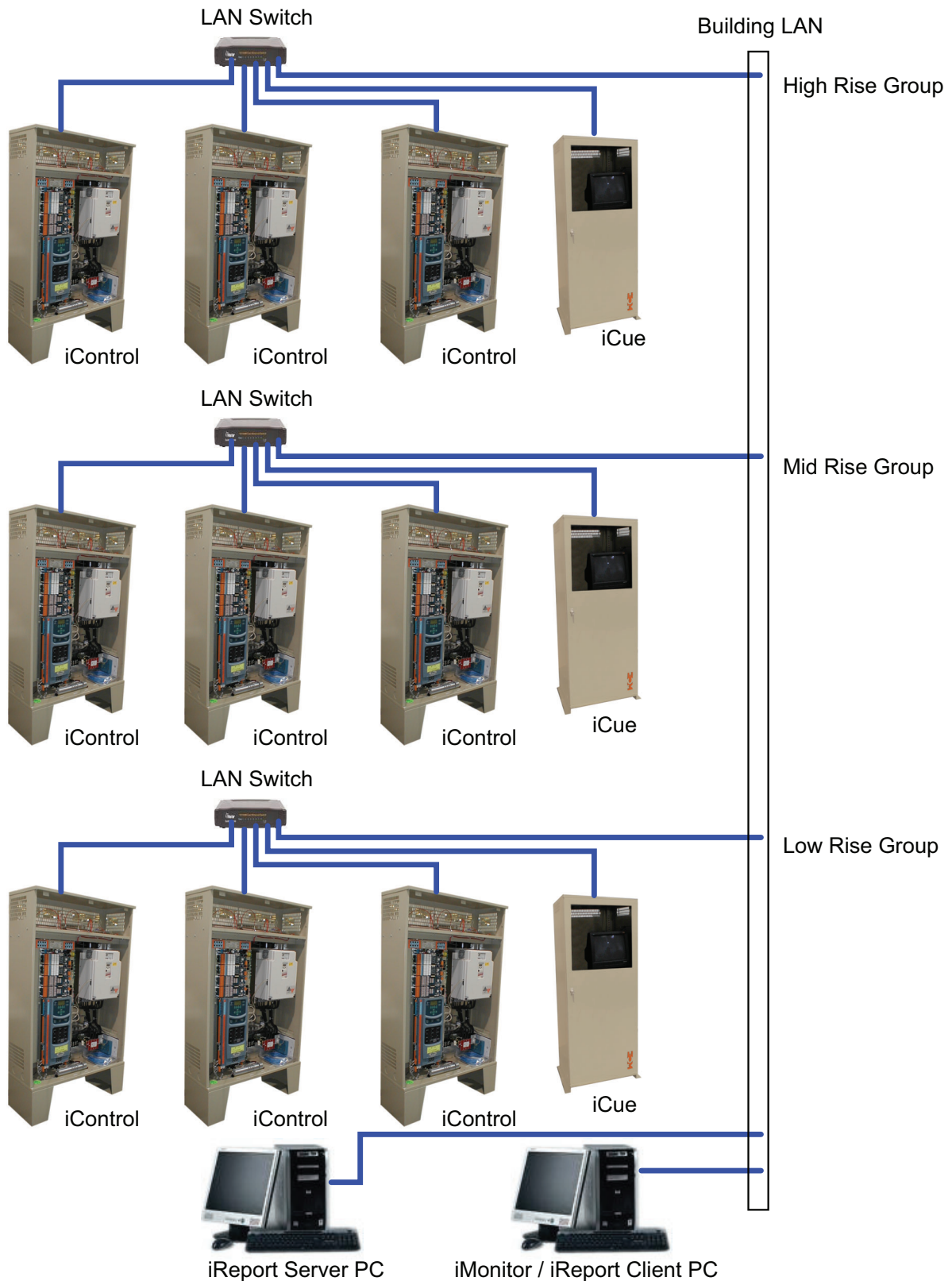


Restrictions

As with single group connections.

Multiple Machine Rooms with Existing Building LAN

Figure 1.4 Multiple Machine Rooms Through Building LAN



Restrictions

In the example, each group LAN switch is connected to a cable drop or Ethernet port located in the machine room. Each machine room and the iMonitor station should be “cross-connected” by the building IT department. It is good practice to isolate the elevator network on its own VLAN if practical.

To facilitate this type of connectivity, each device connected to the network needs a static IP address:

- iBox
- iCue PC
- iView PC
- iMonitor PC
- iReport Server PC
- Motion 2000 hydraulic control
- Motion 4000 traction control
- MC-USN (Ethernet adaptor used in IMC and HMC controllers)

The building IT department should provide a static IP address for each device. DHCP can be used for the iMonitor / iReport Client PC only. Please obtain the following from the building IT department:

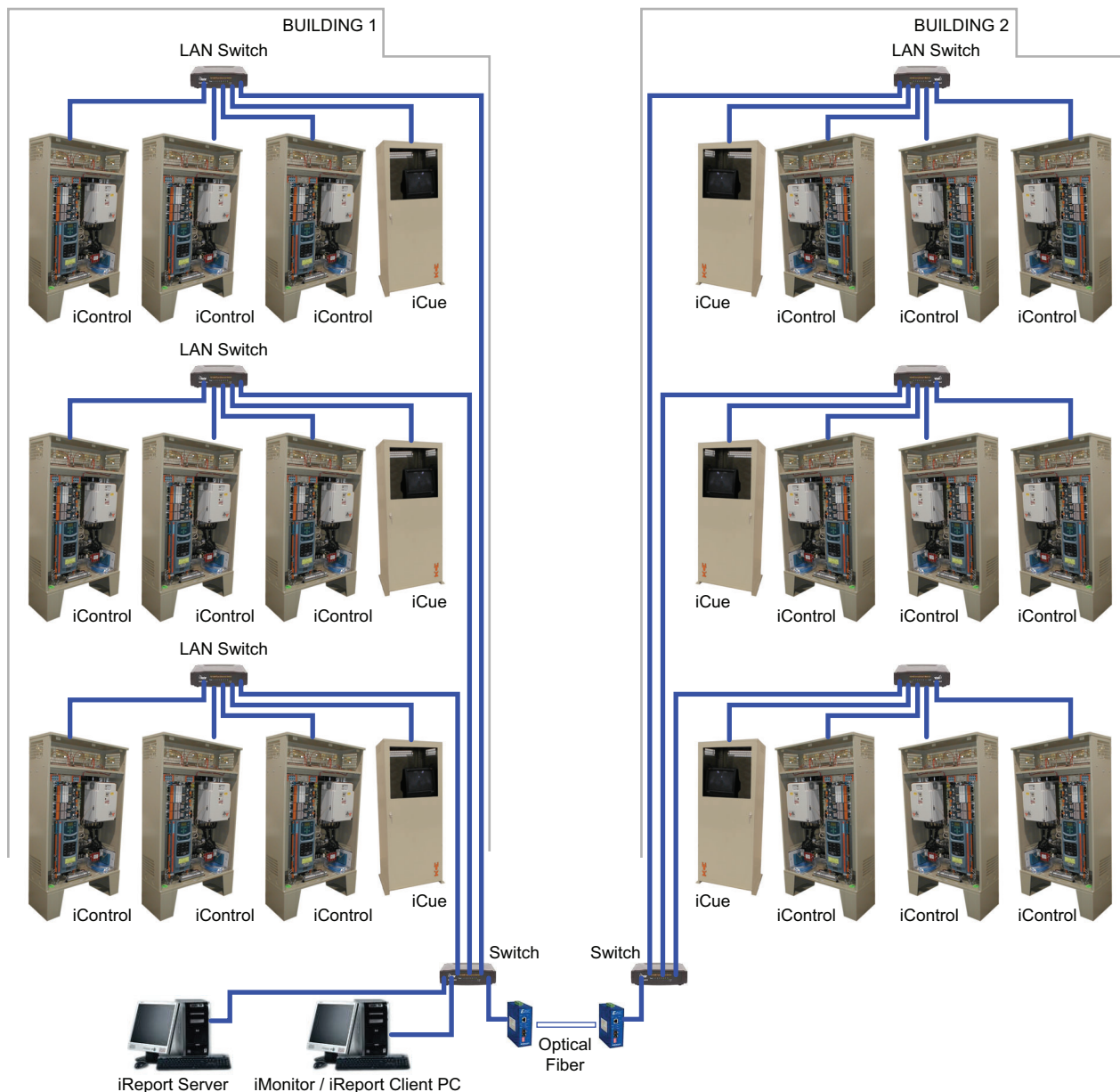
- IP address
- Subnet mask
- Gateway

Enter the address information into the LAN address of each iBox, as well as the LAN address of each iCue. Also change the IP address for each iView, iMonitor / iReport Client, and iReport Server PC.

Two or More Buildings

In the example below, Ethernet cables are run from the LAN switches of the groups down to a switch in the lobby. iMonitor / iReport Client and iReport Server PCs are also connected to the lobby switch. Finally, the lobby switches in each building are connected to one another through a fiber optic link.

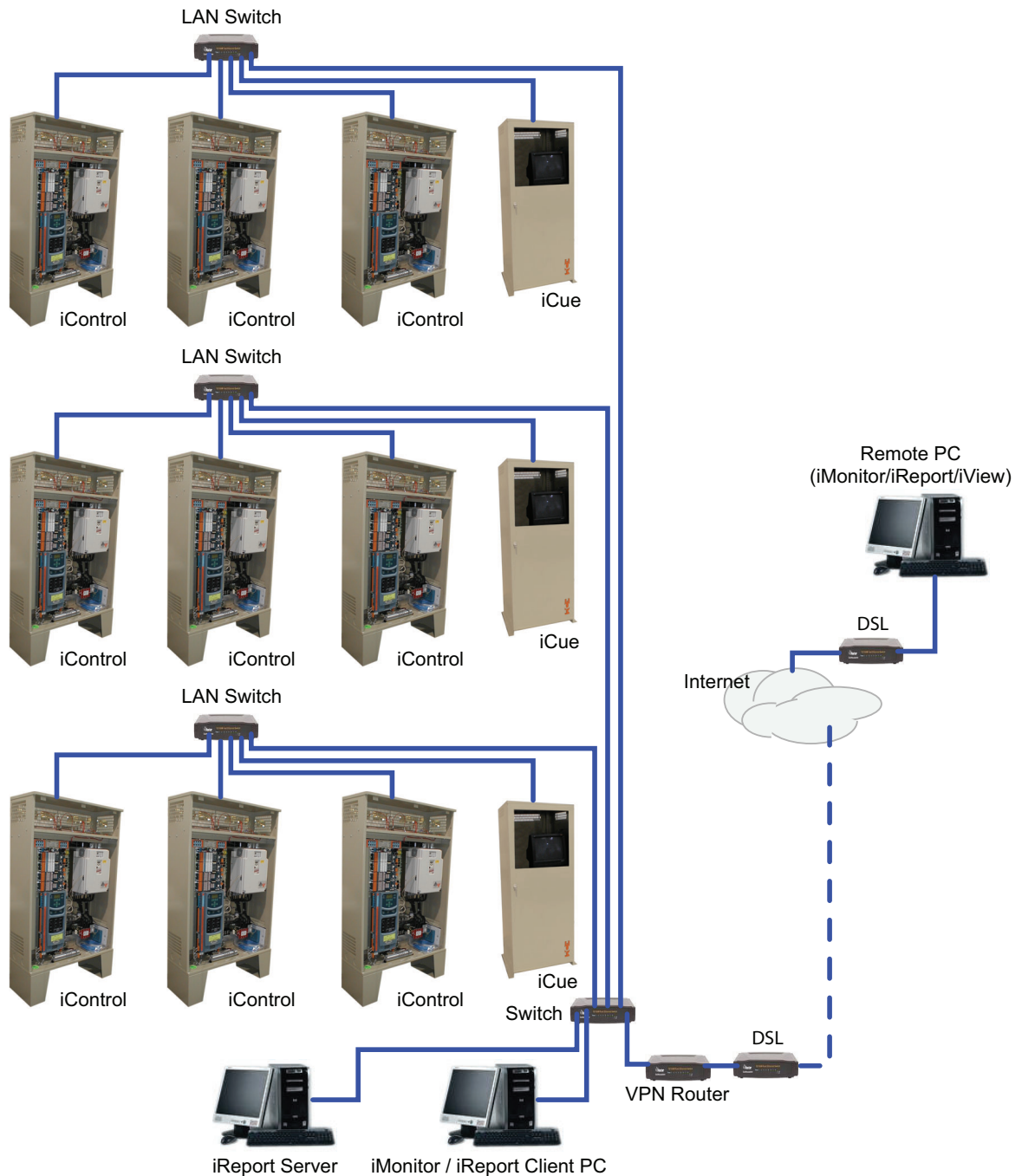
Figure 1.5 Two or More Buildings



Remote Connection

If iMonitor is to be installed at a remote location, a high-speed Internet connection and a VPN router are required.

Figure 1.6 Remote Connection using a DSL Modem and a VPN Router



- **iMonitor**
- **iMonitor Quick Start**



iMonitor

This manual section provides a quick tour of iMonitor with high level explanations of functionality. For additional detail, refer to Section 3.

- [iMonitor Quick Start](#)
- [Create a Connection Set](#)
- [Monitor a Set](#)
- [Detailed View](#)
- [Multiple Hoistway View](#)
- [Campus View](#)
- [iLobby](#)
- [Register Calls](#)
- [Security](#)
- [Remote Control Menu](#)
- [Diagnostics](#)
- [Tools Menu](#)
- [Help Menu](#)

Note

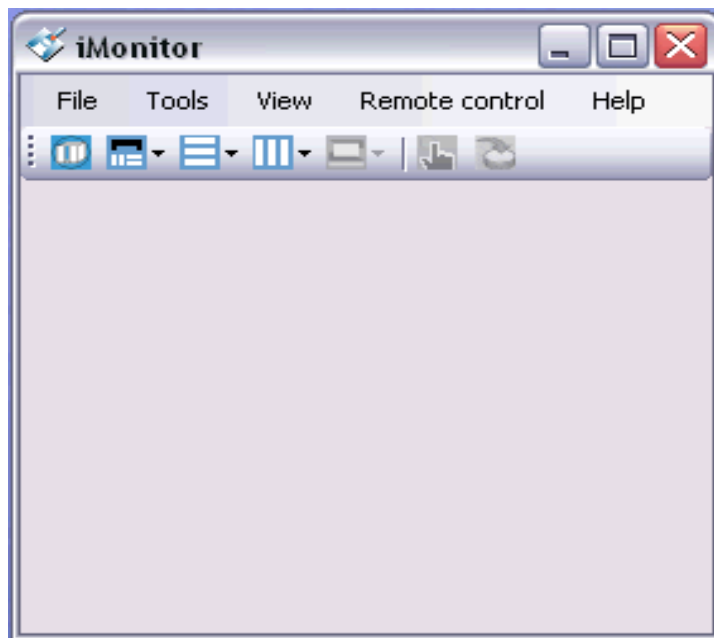
iMonitor is functional with both current and older group controllers. This manual documents the screen appearance and functionality of iMonitor connected to a current release controller. If you are connecting to an older controller, all of the capabilities documented here may not be available and screen appearances and controls may be different.

iMonitor Quick Start

Note

Before iMonitor can access a controller or group, authorization may need to be granted by the controller or group. Refer to the controller or group control manual for information. For example, in iView, **access is granted through the System Configuration, Remote Monitoring Authorization** tab.

- Double-click the iMonitor desktop icon to launch the application .
- If iMonitor has not been previously launched and set up, the first screen you see will be the basic desktop.



Note

If iMonitor has been previously set up, it will open displaying a list of Connection Sets to choose from or with an active Connection Set live display if the “Start with last set” option has been selected from the Tools menu.

Create a Connection Set

iMonitor lets you create “Connection Sets.” Each Connection Set can contain connections to as many as fifty different elevator groups. When a Connection Set is opened, information about all the groups it contains will be displayed. [Please refer to “Connections” on page 3-5](#) for detailed information about this screen.

- Select Connection Set/New from the File menu.

The Connection Set pane will appear (empty at first):

- Enter a logical name and the IP address for each group you add, select the hardware type, click OK, give the set a name, and save it. (Repeat to create more sets if needed.)
- Primary Connections are primary group controllers. One for each group.
- Alternate Connections are elevator controllers or group dispatchers capable of taking over dispatching should the primary dispatcher fail.
- When you connect to a previously configured group, previously configured alternate controls in the group are listed in the Alternate Connections area. [Please refer to “Alternate Connections” on page 3-7](#) for more information.

New Connection Set

Connections | Building Configuration (iLobby)

Alternate Connection lists must match their Alternate Dispatcher's Auto-select Preference Order

Primary Connections

	Connection name	IP address	Hardware Type	Device ID
1				X
2				X
3				X
4				X
5				X
6				X
7				X
8				X
9				X
10				X

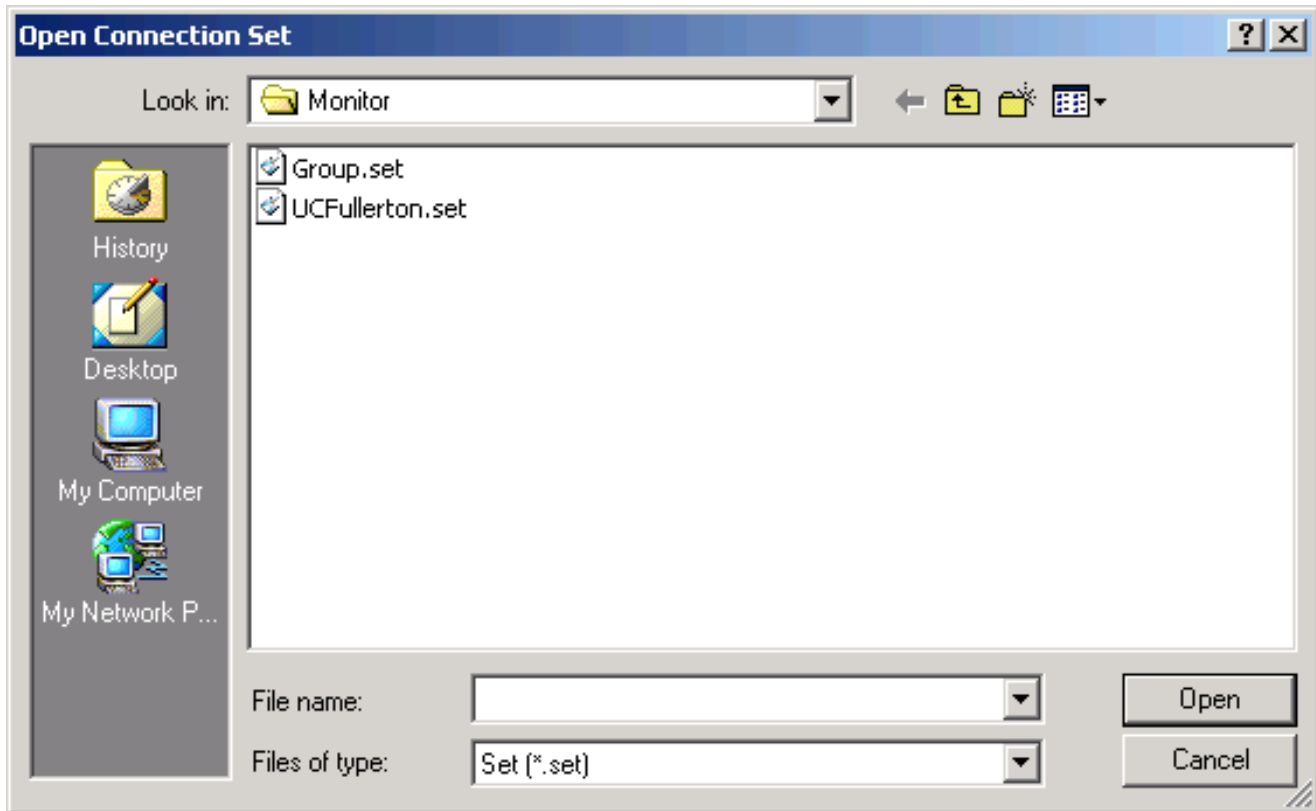
Alternate Connections

	Connection name	IP address	Device ID
1			X
2			X
3			X
4			X
5			X
6			X
7			X
8			X
9			X
10			X

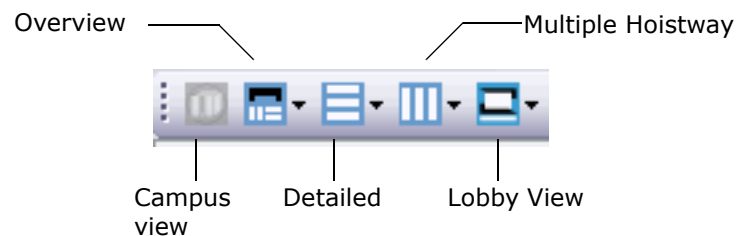
OK Cancel

Monitor a Set

- Select Open from the File menu.
- In the dialog that appears, double-click on the set you want to view.



The selected set will appear in the last active display mode. You can switch between views using the five buttons next to the menus.

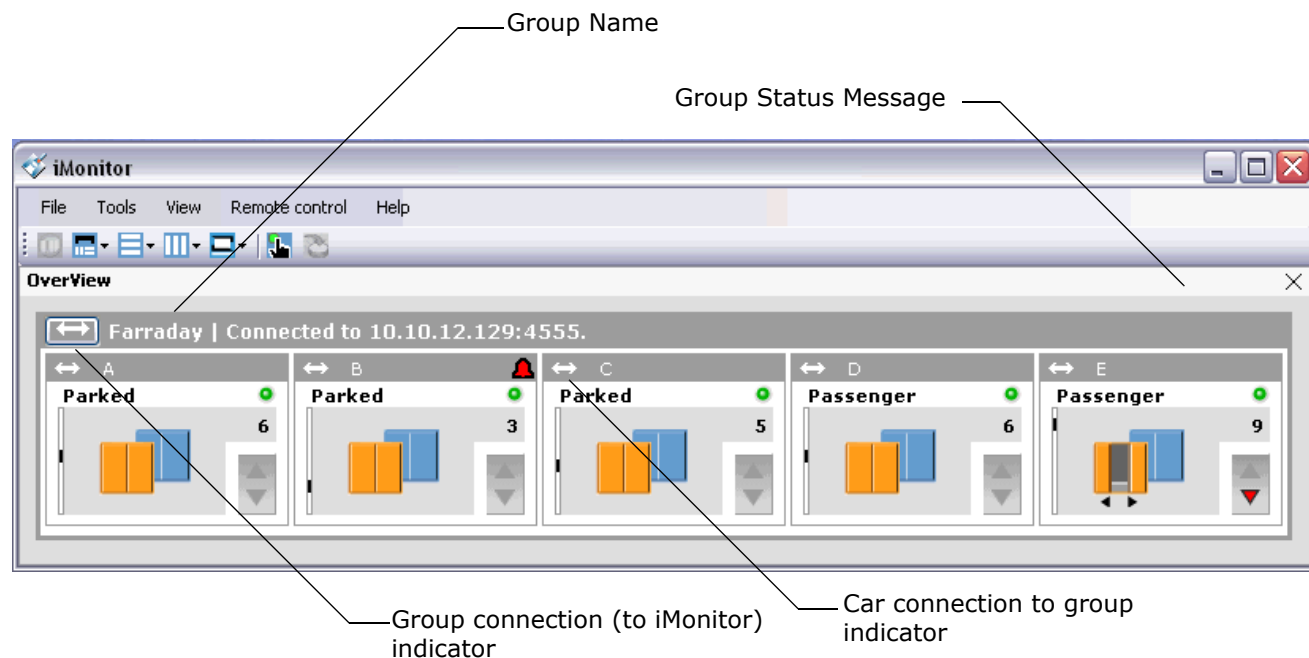


Note

If an authorization required message appears when you attempt to connect, the system you are accessing needs authorization to allow the connection. [Please refer to "Authorization" on page 1-8.](#)

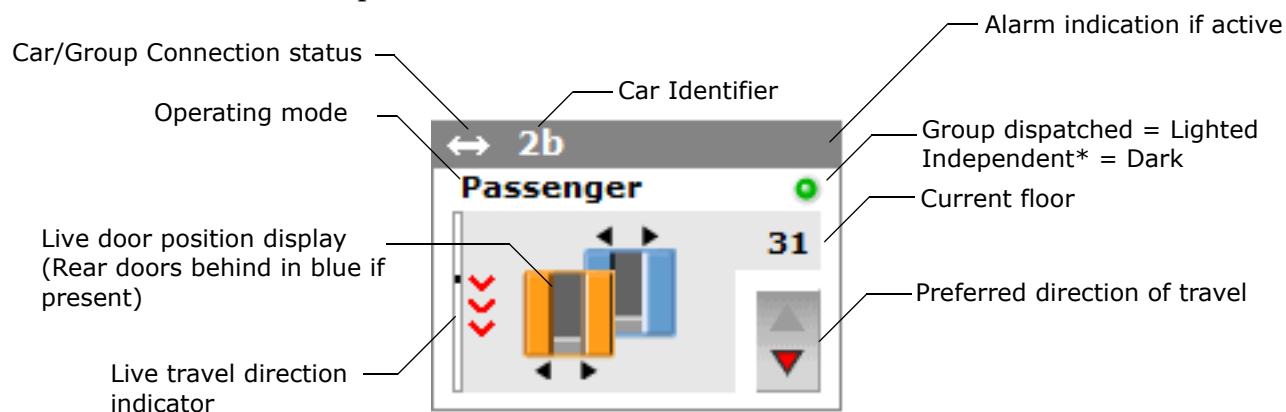
Overview

The elevator Overview display is shown below.



2

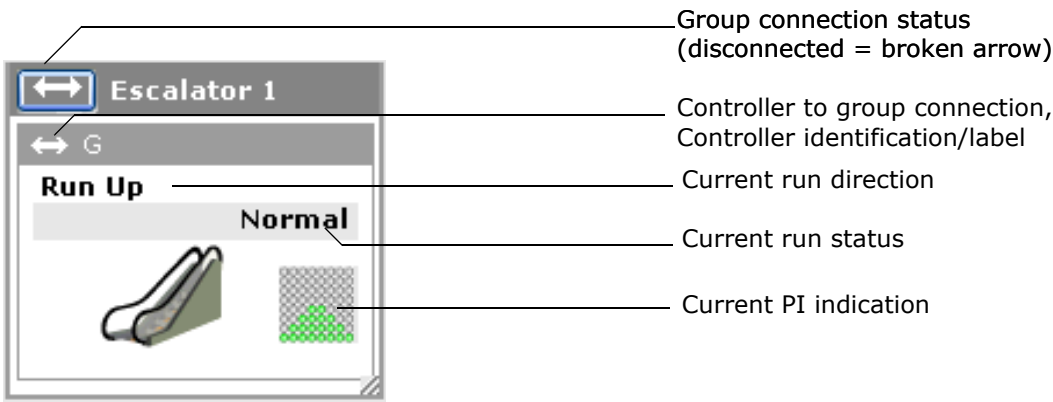
Per car, this screen provides:



* Group cars may occasionally operate in a mode that requires they be dispatched independently. For example, cars on Swing service, Independent Service, etc. are not assigned calls by the Group while operating "independently."

Escalator Overview

The escalator Overview screen is shown below. As with elevators, animated graphics indicate activity of escalator steps and direction. Escalators will also indicate alarm conditions.

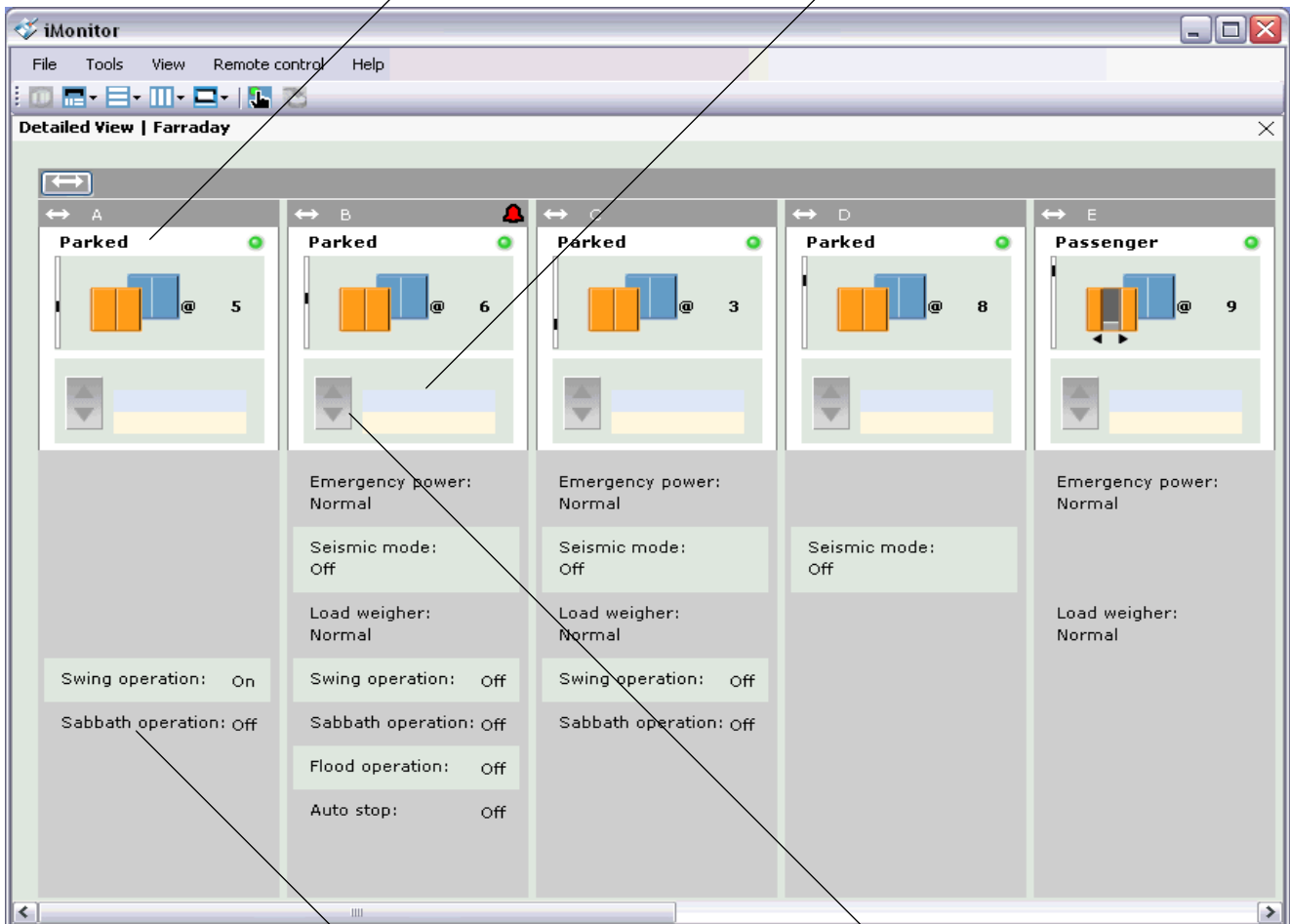


Detailed View

- Select Detailed View/Group Name from the View menu:

Door status
Orange = front
Blue = rear

Call type, next destination, ETA information. Please refer to "Detailed View Explanation" on page 3-12.



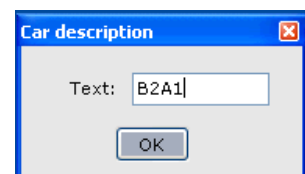
Emergency power, Seismic status, Load weigher, Swing operation, etc. status indicators

Preferred direction of travel

2

Car Label

- Right-click on a car to open a Car description dialog. The dialog displays any existing car label. You may edit a previously assigned label or add a label if one was not available from the controller.



Summary

- Right-click on the group bar to open a Summary dialog. This dialog provides an information summary for the group.



Escalator Detailed View

The escalator detailed view is shown below.

Escalator 1

↔ G

Run Up

Normal



Main Control Board

Safety CircuitClose

Speedpulses/min

Left Handrail83

Right Handrail83

Step Monitor 11,000

Step Monitor 2999

Secondary Control Board

Safety CircuitClose

Speedpulses/min

Left Handrail83

Right Handrail83

Step Monitor 11,000

Step Monitor 2999

DriveVVF/ATL

Drive alarm bellOff

Drive chainNormal

EarthquakeOff

Motor overheatOff

Smoke detectorOff

Primary safety string condition

Component speeds reported in pulses per minute by the primary escalator control board

Secondary safety string condition

Component speeds reported in pulses per minute by the secondary escalator control board

Drive type (Wye/Delta, VVVF)

Drive alarm bell status

Drive chain condition

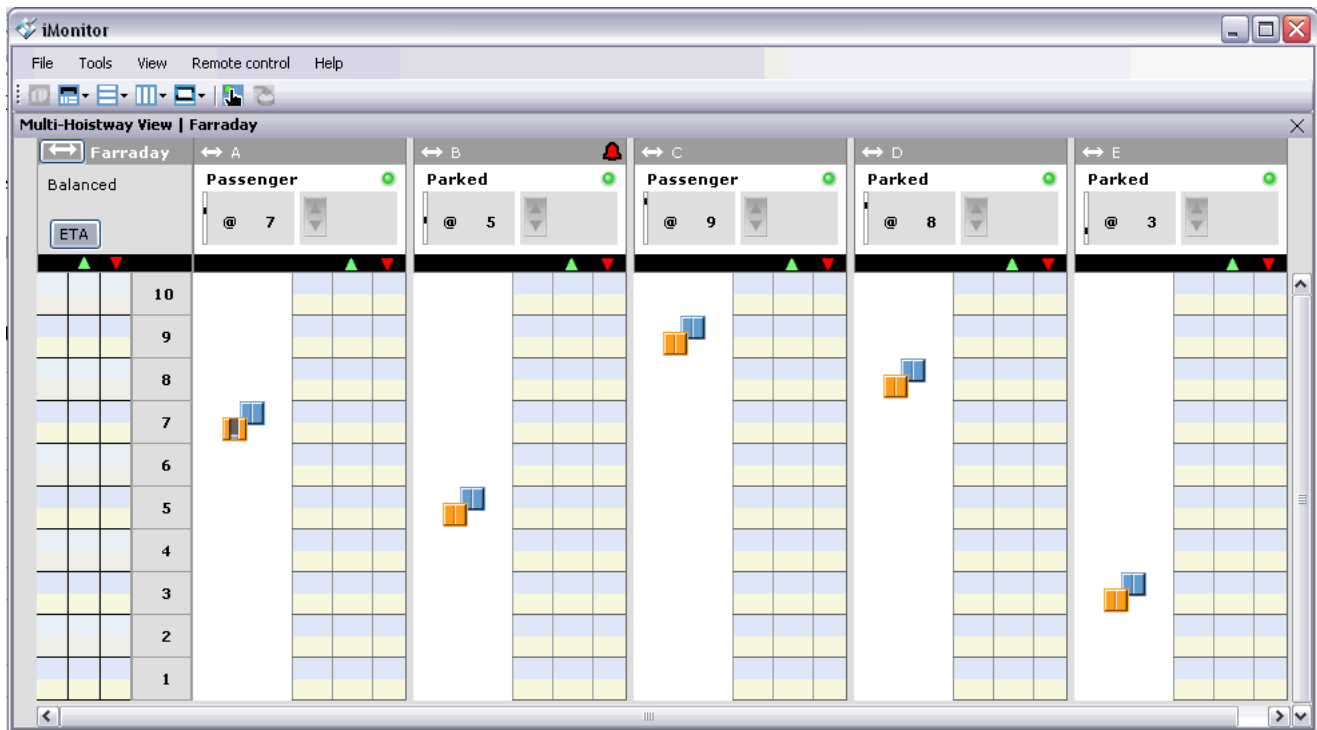
Earthquake/seismic indicator status

Motor overheat indicator status

Smoke detector status

Multiple Hoistway Display

- Select Multiple Hoistway Display/Group Name from the View menu:

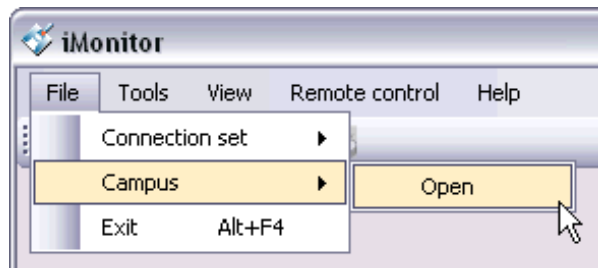


Please refer to “Multiple Hoistway View Explanation” on page 3-14 for detailed information.

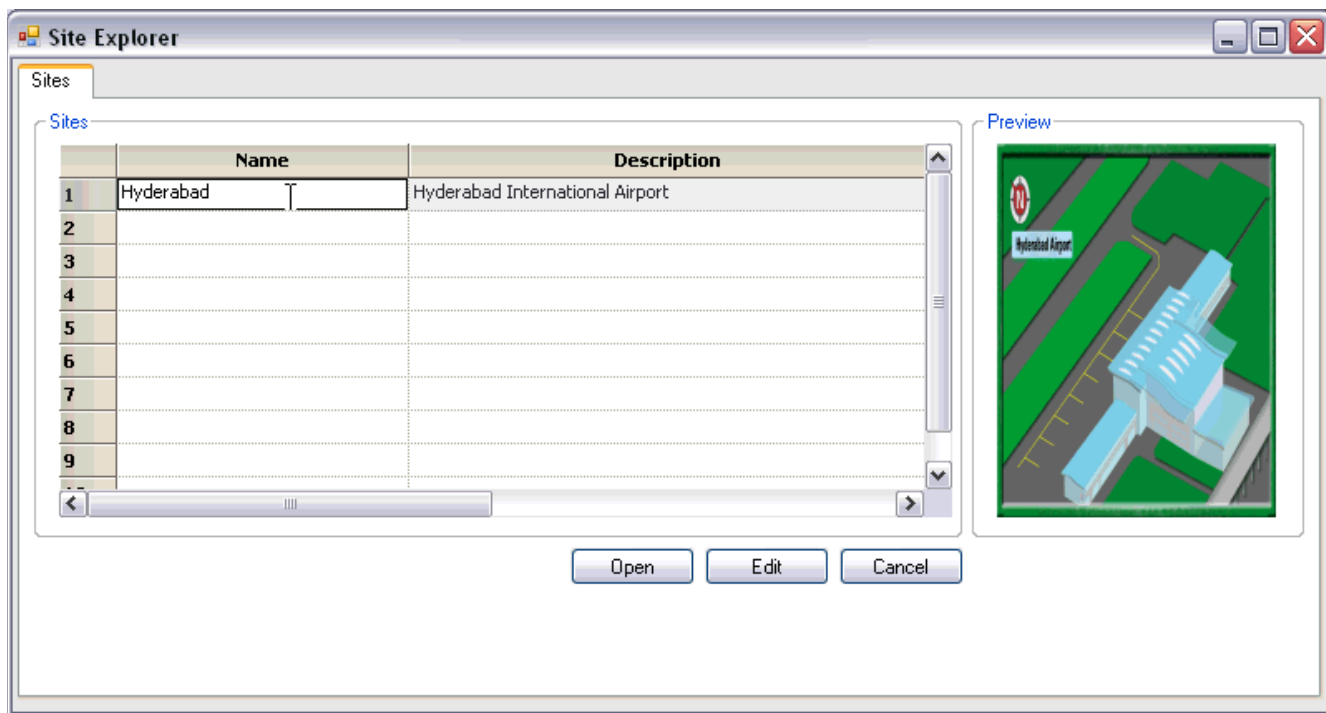
Campus View

The campus/site view provides a three-dimensional overview of an entire site (college campus, manufacturing cluster, airport buildings, etc.). Individual building transportation controllers are visible in approximation of their actual position. If a unit is not operating in normal mode, it will be reflected in the display. Clicking on any unit will open a dialog detailing unit status.

- To initially activate campus view, select Campus/Open from the File menu:



- A dialog will open, listing currently configured sites and allowing you to edit them if needed. Select the site you want and a preview will be displayed.

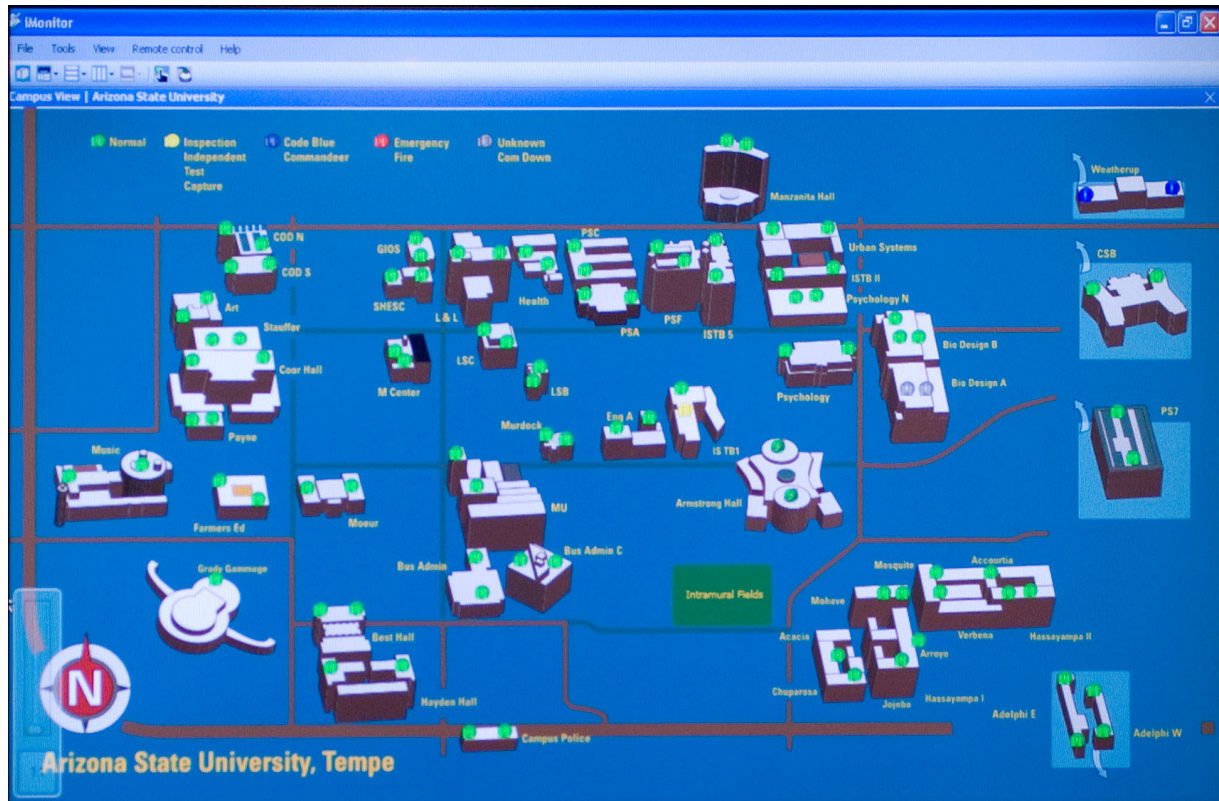


- Click Open.

Note

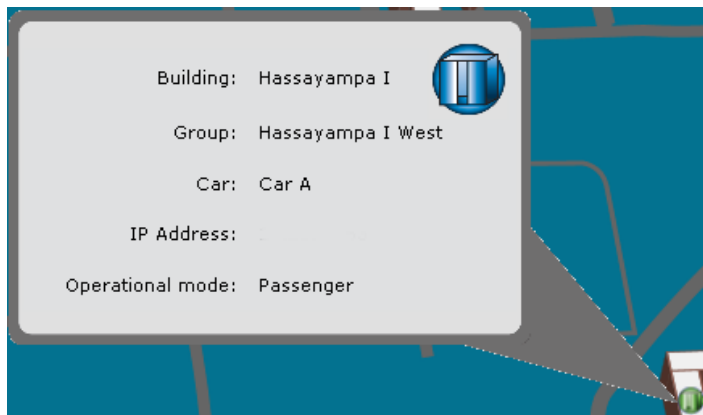
Campus view requires custom work to produce three-dimensional site maps of your facility. If you would like campus views in your iMonitor, please contact MCE.

The site view may range from a simple three-dimensional building cluster to a more detailed view depending upon the initial order conditions. Sites are best viewed on large (32-inch) monitors with a 16 x 9 aspect ratio. A live site example is shown below.



2

This example is of a site with multiple elevator controls. Any of the elevator icons may be clicked to display more detail. Simply pausing the computer mouse over a unit will display abbreviated information in a pop-up window. An elevator dialog example is shown below.



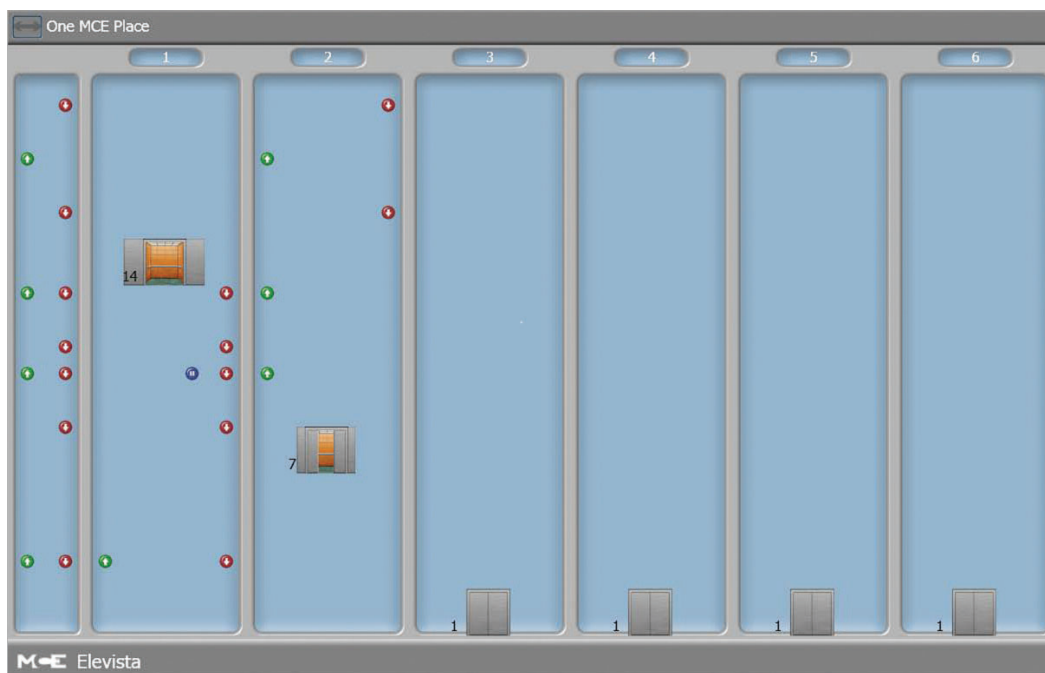
Within Campus View

Once you have initiated the site/campus view, the Overview and Detailed View buttons will allow you to access controls just as in standard iMonitor view.

Lobby View

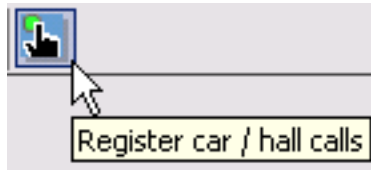
The Lobby View is designed to be displayed on a wide, flat panel display in the building lobby. It connects to and graphically displays the status and movement of a single elevator group.

- Select View/Lobby View/Group name



Register Elevator Calls

You may register an elevator car call while viewing cars on any of the “view” displays. Click the call register button to begin.



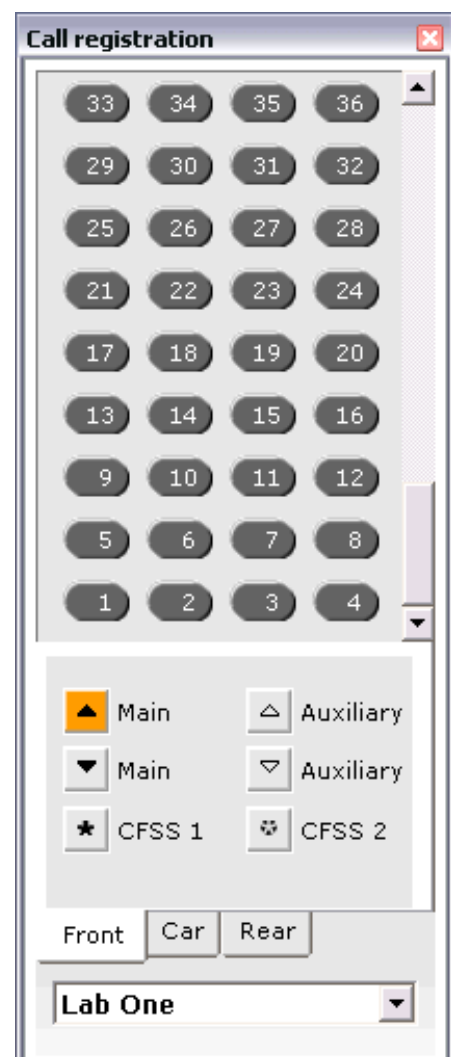
The call-type tabs (Hall calls, Car calls, etc.) will display the calls available for the selected group.

Hall Calls

- Pick a Group.
- Pick a call type.
- Pick a floor number.

Note

You can register multiple hall calls if desired.

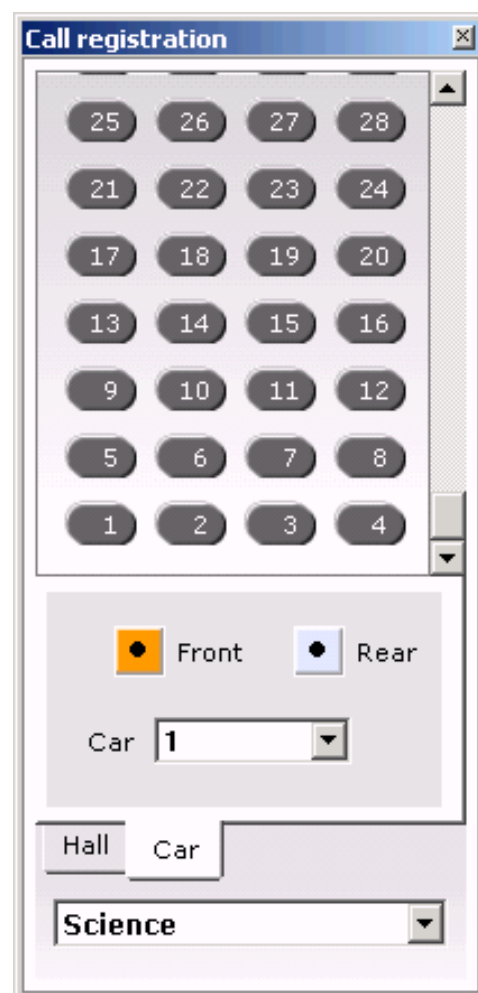


Car Calls

- Pick a group.
- Pick a car.
- Pick front or rear call panel.
- Pick a floor.

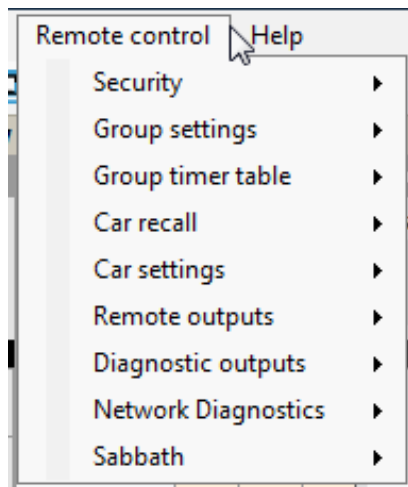
Note

You can register multiple calls if desired.



The 'Call registration' window features a numeric keypad with buttons 1 through 28 arranged in a 7x4 grid. Below the keypad are two radio buttons labeled 'Front' (with an orange square icon) and 'Rear' (with a blue square icon). Under these is a 'Car' dropdown menu currently showing '1'. At the bottom, there are two tabs labeled 'Hall' and 'Car', with the 'Car' tab selected. Below the tabs is a dropdown menu currently showing 'Science'.

Remote Control

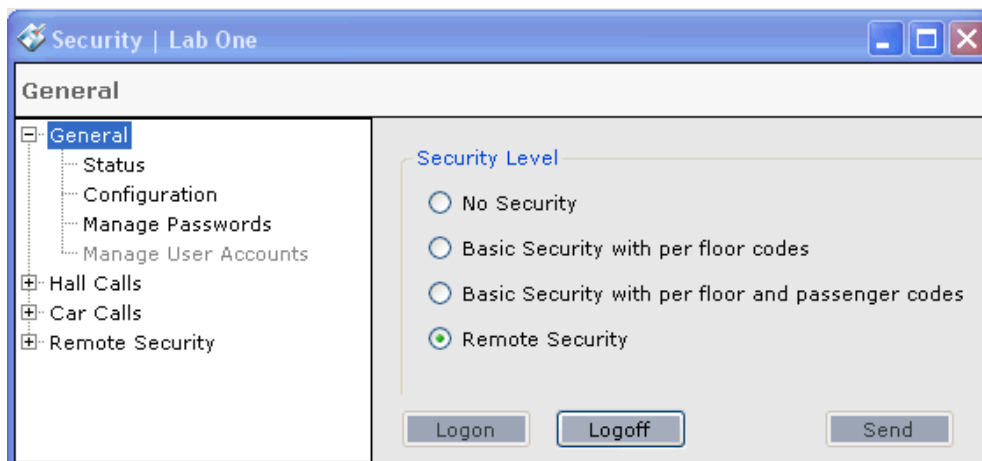
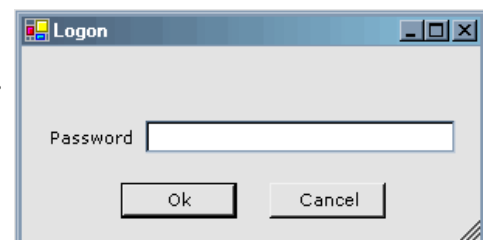


Elevator Security

iMonitor allows you to restrict elevator travel through the building by controlling hall and car call registration to an elevator group. iMonitor also supports a non-secured environment or allows you to accommodate a qualified remote (independent) security application.

Access to security settings beyond viewing general status is restricted to authorized users. There are two user classes, manager and technician. The manager is allowed to set up and edit passwords, the technician is not. To log on:

1. Select Security/Group name from the Security menu.
2. Click the Logon button at the bottom of the screen.
3. Enter the manager or technician password. (Factory default passwords are “manager” for manager logon and “technician” for technician logon.)
4. Click OK. Menus that were previously grayed-out will become available.



No Security

Selecting No Security (on the Security/General screen) and clicking Send informs the group that no security is being enforced. All security controls except Manage Passwords will become unavailable. [Please refer to “Manage Passwords” on page 2-19.](#)

Basic Security with Per Floor Codes

Selecting Basic Security with Per Floor Codes allows iMonitor to configure Hall Calls (2-20)/ Per-Floor Security and Per-Car Lock Out, Car Calls/ Configuration (2-24) and Mode Overrides (2-26), and Passcodes (2-27) / Floor (2-27) travel restrictions.

Basic Security with Per Floor and Passenger Codes

Selecting Basic Security with Per Floor and Passenger Codes adds per-passenger code entry requirements (2-28) to the Basic Security with Per Floor Codes restrictions above.

Remote Security

Selecting Remote Security allows MCE Sentry or Computrols security applications to determine security settings. [Please refer to “Remote Security” on page 2-30.](#)

Status

Security | Lab Two

General Status

- General
 - Status
 - Configuration
 - Manage Passwords
 - Manage User Accounts
- Hall Calls
- Car Calls
- Remote Security

Master security

- Active
- Hardware override
- Software override [Deactivate Override](#)

Active configuration

Off

- Hardware configuration
- Software configuration
- Timed configuration

Hall call security overrides

- Enable 1
- Enable 2

Car call security overrides

1	2	3	4	5	
☒	☒	☒	☒	☒	Master
☒	☒	☒	☒	☒	Enable 1
☒	☒	☒	☒	☒	Enable 2
☒	☒	☒	☒	☒	Passcodes

Remote security

- Not Connected
- Last swiped card data

Floor	Door side	Kiosk ID
1	Front	0

[Logon](#) [Logoff](#) [Send](#)

The Status screen provides an overview of currently active security settings.

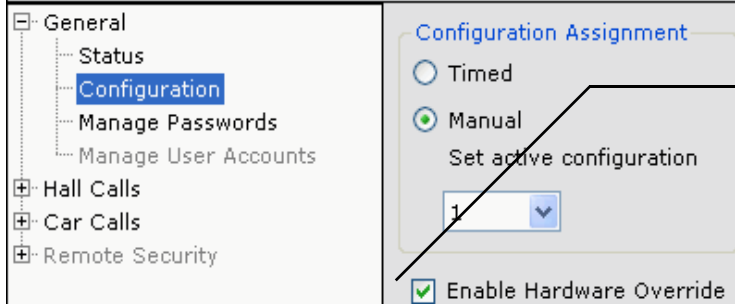
- Master security:
 - Active: Lights if any security mode is active.
 - Hardware override: Lights if security has been overridden by a switch input.
 - Software override: Lights if security has been overridden by a software selection.
 - Activate/Deactivate button: Activates or deactivates software security override.
- Active configuration:
 - Display: Currently active security configuration.
 - Hardware configuration: Lights if configuration activated by hardware switch.
 - Software configuration: Lights if configuration activated by software switch.
 - Timed configuration: Lights if configuration activated by system timer.

Note

Timers are configured through the iView Timer Tables screen. Please refer to iView Help.

- Hall call security overrides:
 - Enable 1: Lights if the hall call input override #1 switch is closed.
 - Enable 2: Lights if the hall call input override #2 switch is closed.
- Car call security overrides: (two LEDs per car)
 - Car “x”: Two methods of car call security are provided (i.e., card reader and key switch). If one is overridden, an LED will light. If the second is overridden, the second LED will light.
- Remote security
 - Connected/Not Connected LED: Connection status of remote security.
 - Last swiped card data: Floor, side, and kiosk ID at which last card was swiped.

Configuration



Allows you to enable or disable the hardware security override switches.

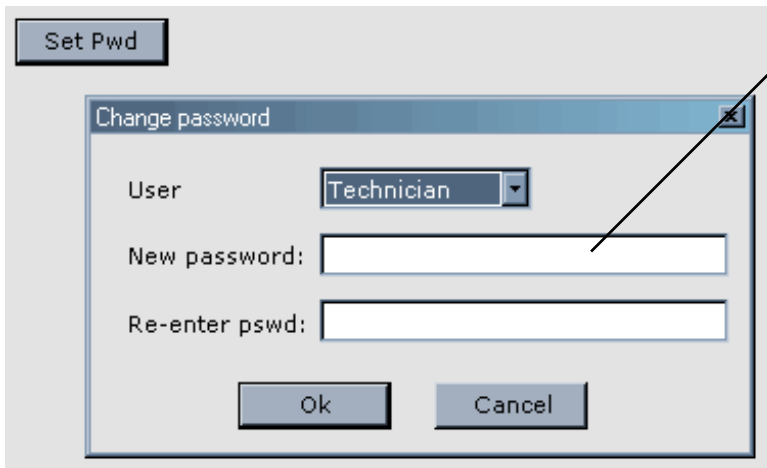
This screen allows you to enable manual or timed assignment of security configurations. To set a security configuration manually:

1. Select Manual assignment.
2. Set the desired configuration in the drop-down list.
3. Click Send.

To enable assignment by timer setting:

1. Select Timed assignment.
2. Click Send.

Manage Passwords



Initially, select the "manager" class and use the password "manager."

During your initial access, set up passwords appropriately.

You must be logged on as the manager to manage passwords:

1. Click on the Manage Passwords menu listing.
2. Click on Set Pwd to open the dialog.
3. Select the User class (Manager or Technician) to set the password for.
4. Enter the password. (Double-check to make sure it is what you intended.)
5. Click OK.

Note

If you forget the password, locate the job number and/or serial number of the group controller and contact MCE Technical Support at 916 463 9200.

Manage User Accounts

This screen is active only with specific custom software packages.

Hall Calls

Hall Call security allows you to place two different kinds of restrictions:

- Per-Floor Security: Places restrictions on hall call riser access on a per-floor basis.
- Per-Car: Specifies which cars may stop at particular floors.

Per-Floor Security Hall calls may be Unlocked, Locked, or Secured:

- Unlock: Unrestricted access. Calls may be registered.
- Locked: No access. Calls may not be registered.
- Secure: Access is restricted to authorized passengers. Calls may be registered after proper authorization (i.e., card reader, key switch, or code entry).

To set hall call restrictions:

1. Select Per-Floor Security.

General

Security input latch time sec

☐ Allow parking at secured hall call

☐ Allow parking at partially locked floor

Configuration

Floor label	Main				Auxiliary				CFSS			
	Front		Rear		Front		Rear		Front		Rear	
	Up	Down	Up	Down	Up	Down	Up	Down	CFSS1	CFSS2	CFSS1	CFSS2
15												
14												
13												
12												
11												
10												
9												
8												

Set

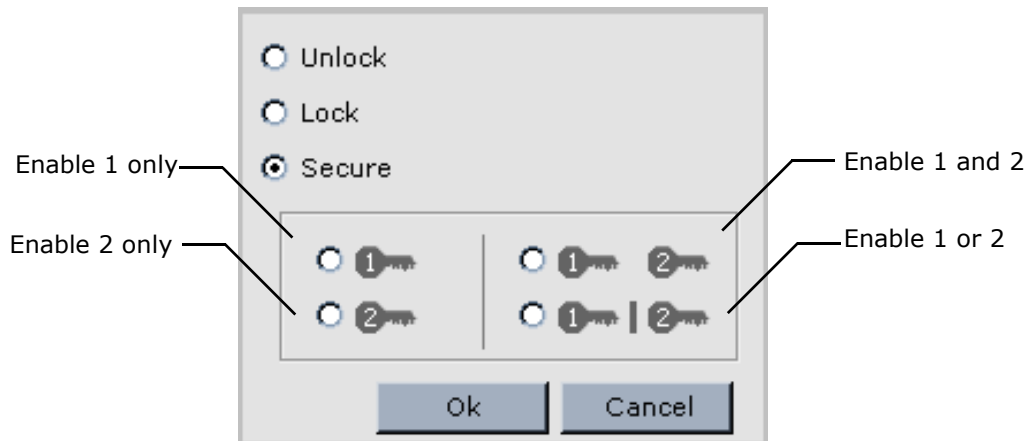
Logon

Ok Cancel

Send

2. Set the Security input latch time. (Number of seconds before authorization times out.)
3. Select the security configuration to which the hall call restrictions apply.
4. Set whether parking will be allowed at a secured hall call or partially secured floor.
5. For the hall call type (i.e., Main, Auxiliary, CFSS) and location (Front/Rear), click in the table at the floor and direction (up/down) to be set.
6. In the selection list that appears, select the desired security condition (Unlock/Lock/Secure).

7. If Secure is selected, chose the combination of authorizing inputs (i.e., key switch (enable one), card lock (enable two) required to enter the call.



8. Scroll down if needed; click Send.

Alternative Selection

- Click in a Floor box to select all calls on that floor. Or, click in a Riser box to select all calls for that riser.
- Choose the desired setting.
- Click OK to set all selected calls the same.

Or,

- Click and drag in a column or row to make multiple selections.
- Click Set Selection.
- Choose setting and click OK to set all selected calls the same.

Per-Car Lockout On a per-car, per-floor, per-direction basis, allows you to determine which cars may respond to any hall call type.

Car Lock Out

General
 - Status
 - Configuration
 - Manage Passwords
 - Manage User Accounts
 All Calls
 - Per-Floor Security
 - **Per-Car Lock Out**
 Remote Security

Call type: Main

Floor label	1		2		3		4	
	Front	Rear	Front	Rear	Front	Rear	Front	Rear
	Up	Down	Up	Down	Up	Down	Up	Down
15								
14								
13								
12								
11								
10								
9								
8								
7								
6								
5								
4								
3								
2								
1								

Set Selection

Logon Logoff Send

1. Select a call type.
2. For any car, click in a front/rear, up/down box.
3. Unlock to allow the car to respond. Lock to prevent the car from responding.
4. Click Send.

Alternative Selection

- Click in a Car box to select all floors and directions. Or, click in a Riser box to select all calls for that riser.
- Choose the desired setting.
- Click OK to set all selected calls the same.

Or,

- Click and drag in a column or row to make multiple selections.
- Click Set Selection.
- Choose setting and click OK to set all selected calls the same.

Car Calls/Passcodes

This screen allows you to set password length.

The screenshot shows a web-based configuration interface titled "Security | Lab Two". The interface is divided into a left sidebar and a main content area. The sidebar contains a tree view with the following items: General, Hall Calls, Car Calls, and Remote Security. Under "Car Calls", there are sub-items: Configuration, Mode Overrides, Passcodes (which is highlighted), Floor, and Passenger. The main content area is titled "Codes" and contains the following settings:

- Timeout between buttons: 3 sec
- Passenger passcode length: 5

Below these settings, a note states: "It is recommended that the passenger passcode length and floor passcode length match." At the bottom of the main content area, there are three buttons: Logon, Logoff, and Send.

2

Car Calls/Configuration

Car calls may be Unlocked, Locked, or Secured:

- Unlock: Unrestricted access. Calls may be registered.
- Lock: No access. Calls may not be registered.
- Secure: Access is restricted to authorized passengers. Calls may be registered after proper authorization (i.e., card reader, key switch, or code entry).

To set car call restrictions:

1. Select Car Calls/Configuration.

Security input latch timer: 0 sec

Configuration: 1

Click here to select all floors, cars, and calls in group.

Click here to select all front/rear calls for this car.

Click here to select all cars and calls for this floor.

Click here to select this car, this call, this floor.

Set Selection

Logon Logoff Send

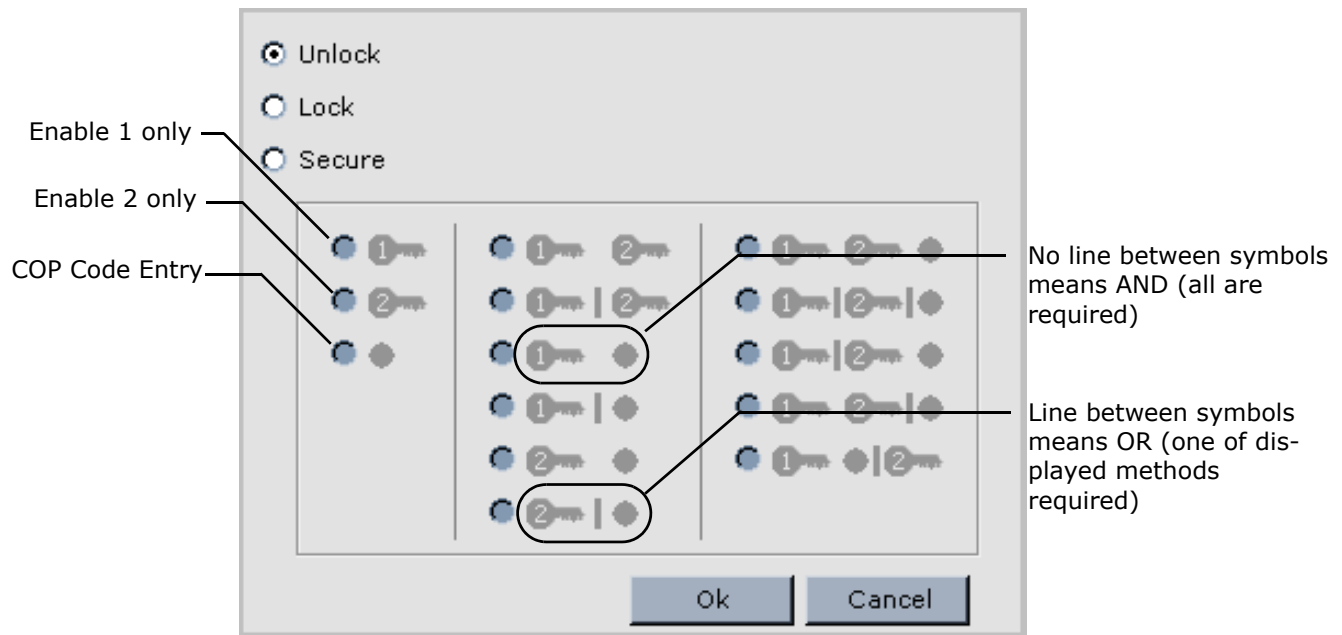
Floor label	1		2		3		4		Front	Rear	Fro
	Front	Rear	Front	Rear	Front	Rear	Front	Rear			
15									1		
14									1		
13									1		
12									1		
11									1		
10									1		
9									1		
8									1		
7									1		
6									1		
5									1		
4									1		

2. For the car and car call type (front/rear), click in the table at the floor and car panel location (front/rear) to be set.
3. In the selection list that appears, select the desired security condition (Unlock/Locked/Secure).
4. If you choose Secure, select method of authorization.
5. Click OK. Click Send.

Alternatively:

- Click and drag to select multiple floors and calls or click in one of the auto-select areas shown in the illustration above.
- Click Set Selection and choose setting. Click Send.

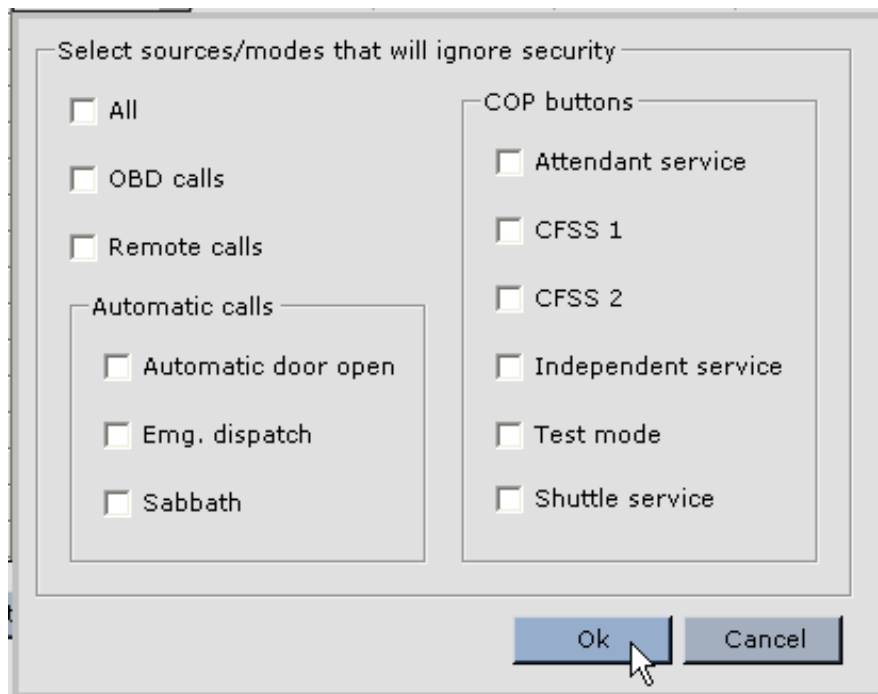
Symbol Keys The illustration below explains car call security symbols:



Car Calls/Mode Override

On a per floor, per configuration, per car panel, per authorizing signal basis, you can allow a security authorization typically required to place a car call to be overridden when the car is operating in a selected mode.

- Configuration: Select the configuration affected by these choices.
- Signal: Select the authorizing signal to be overridden by these choices.



- Selection: Select floors, cars, and calls singly or in blocks just as described for [setting security authorizations](#) previously.
- Choose the operating mode or modes that will override the typically required authorization to place a call.
 - All
 - OBD calls
 - Remote calls
 - Automatic door open
 - Emg. dispatch
 - Sabbath
 - iBox OBD calls
 - Emergency dispatch
 - iControl CFSS 1
 - Test mode
 - Attendant service
 - iControl CFSS 2
 - Independent service
 - Shuttle service
- Click OK.

Active overrides are displayed as single letters, each corresponding to a mode:

- I = Independent
- A=Attendant
- 1=CFSS1
- 2=CFSS2
- D=Auto Door
- T=Test Mode
- E=Emerg Dispatch
- S=Sabbath
- R=Remote
- O=OBD
- S= Shuttle service

Note

Automatic Calls/Automatic Door Open: Under certain conditions, including certain fault conditions and emergency power transfer periods, the elevator doors may need to automatically open or cycle open/closed at floors. Activating this override, allows the doors to open or cycle even at a secured opening.

Car Calls/Passcodes

The initial screen allows you to configure passenger code timeout and lengths.

Codes

- General
 - Status
 - Configuration
 - Manage Passwords
 - Manage User Accounts
- Hall Calls
 - Per-Floor Security
 - Per-Car Lock Out
- Car Calls
 - Configuration
 - Mode Overrides
 - Passcodes**
 - Floor
 - Passenger
- Remote Security

Timeout between buttons: 3 sec

Passenger passcode length: 5

It is recommended that the passenger passcode length and floor passcode length match.

Logon Logoff Send

Car Calls/Passcodes/Floors

This screen allows you to assign security authorization codes for car operating panel entry.

1. Configuration: Select the configuration affected by these choices.

Configuration: 1

Floor label	1		2		3	
	Front	Rear	Front	Rear	Front	Rear
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						

Dialog for Floor 57: 6, 14, 19, 24

25 26 27 28

21 22 23 24

17 18 19 20

13 14 15 16

9 10 11 12

5 6 7 8

1 2 3 4

Front Rear

Set Selection Clear Ok Cancel

Timeout between buttons: 3 sec

2. Selection: Select floors, cars, and calls singly or in blocks just as described for [setting security authorizations](#) previously.
 3. In the dialog that appears, select the COP and the code. Click OK.
 4. If you make an entry error, click Clear, then re-enter.
- Timeout between buttons: When the passenger is entering a code, if more than the number of seconds set here elapses between button presses, the code entry will time out.

- Operation** To place a call with the code entry security option active:
- Press a floor selection as usual. The panel buttons will begin to flash.
 - Press floor buttons to enter the code.
 - Correct entry will register the call. The panel buttons will return to normal.
 - Incorrect or timed-out entry will not register the call. Panel buttons will return to normal.
 - Repeat the process if entry was incorrect or timed-out.

Car Calls/Passcodes/Passengers These controls allow you to assign entry codes to specific passengers, along with accessible floors and any special operating modes during which their code entry should remain valid.

Security Davis Center			
General Status Configuration Manage Passwords Hall Calls Car Calls Configuration Mode Overrides Codes Floor Passenger Users	ID	Passenger	Pass Code
	1	Davis, Mark	6, 13, 12, 7, 10

When initially selected, if any passengers have been assigned a code, they will be listed in the window along with their code and any special operating modes associated.

To edit an existing user, double-click their name. To add a new user, click Add. The Add/Edit dialog is largely the same:

- Name: If you are editing, the user name and Previous and Next buttons (allowing you to move through a list of users) are here.

If you are adding a new name, a blank name field and an Add Next button (allowing you to move to a new entry when this one is complete) are here.

- Select allowed floors and risers.
- Assign a pass code. (Front and Rear car call panels may use separate codes.)
- Select any special operating modes through which this access will remain active.
- Click OK.
- Click Send when ready to write changes to the group.

Note

Per passenger security is only available for iControl systems that have Security C functionality enabled. It is not a standard feature.

Passenger Properties

Passenger Data (1)

Name:

Destinations Allowed

Floor label	Front	Rear
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		

Pass Code

13	14	15	
9	10	11	12
5	6	7	8
1	2	3	4

☒ Front ☐ Rear

Modes Allowed

☐ Attendant Service ☒ Independent Service

☐ CFSS 1 ☐ Sabbath

☐ CFSS 2

Remote Security

The initial Remote Security screen allows you to set the application providing independent security control:

- None: Remote security control is not in place.
- MCE Sentry: The MCE Sentry application is providing security control.
- Computrols: The Computrols application is providing security control.

For information about specific security systems, refer to the manufacturer manual. The MCE Sentry manual (42-IS-0227) is available on the MCE website (www.mceinc.com)

Credential Reader Options

- Credential swipe timer: Set time in seconds during which a security code (if required) must be entered after the credential is read by the security system. If the code is not entered before this timer expires, the credential read is canceled. (The credential must be swiped/read again to restart the timer.)
- Credential Reader Definition:
 - Reader ID: For standard hall call systems, a unique ID is assigned to the reader at each car opening/floor location so that the security system knows where to send a response.
 - Floor: The floor at which a Reader or Kiosk is located.
 - Door Side: The elevator opening (front/rear) at which a Reader or Kiosk is located.
 - Kiosk: For destination based dispatching systems, an ID is assigned to the Kiosk at each car opening/floor location so that the security system knows where to send a response.
- Send: When settings are changed, click Send to send those changes to the security system.

Credential swipe timer sec

Credential Reader Definition

Reader ID	Floor	Door Side	Kiosk ID
1	1	Front	1
2	1	Rear	2
3	N/A	Front	0
4	N/A	Front	0
5	N/A	Front	0
6	N/A	Front	0
7	N/A	Front	0
8	N/A	Front	0
9	N/A	Front	0

Active Security Map

Per floor, security type (source or destination), and car opening displays the security map currently in place (display only).

Security type
MCE Sentry

Floor label	Source Call Security Map		Destination Call Security Map	
	Front	Rear	Front	Rear
15				
14				
13				
12				
11				
10				
9				
8				
7				
6				
5				
4				
3				
2				
1				

Set Selection

Logon
Logoff
Send

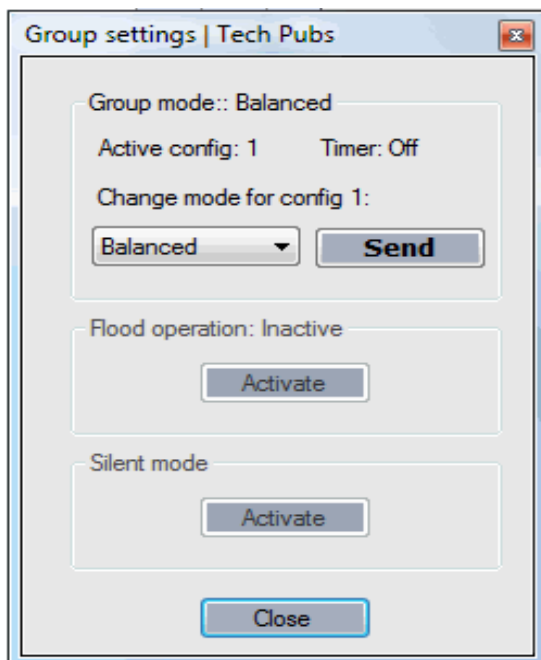
Secured (requires credential and/or code)

Locked (No access)

Unsecured (Free access)

Group Settings

Depending upon site capabilities and options, group modes of operation may also be remotely selectable.



Group Mode: Balanced

Displays and allows you to select the desired mode of operation (for iView Mode of Operation Configuration 1 only):

- Select the mode from the drop-down list, then click Send.
 - Balanced
 - Lobby Peak
 - Demand Down
 - Demand Up
 - Auto-mode

Selection is disabled if timed operation is active through iView selection. Settings here are effective only on Operating Mode Configuration 1 and so are in force only when Configuration 1 is active. Details of operation for the modes in the drop-down list are set up using iView. See iView Help for details.

Flood Operation

Flood operation may be remotely activated/deactivated.

Silent Mode

When Silent Mode is made active, the car will run without passing or arrival gong activation.

Group Timer Table

The Group Timer Table menu allows you to create timers that automatically determine, based on day and time of day, the currently active configuration for Hall Call Eligibility, Parking, Parking Eligibility, Mode of Operation and Security. In addition, timer tables can be used to control the first four Remote outputs. Depending on controller type (Central/Local dispatcher, Local/Simplex/Swing control) some parameters are not applicable and are grayed out. Timer Tables are currently available for iControl only.

	Timer Name	Configuration
1	Case 1	1
2	Monday Group Tours	4
3		
4		
5		
6		
7		
8		
9		
10		
11		

Timer Details

Recurrence Type: Weekly Time Recurrence
 Start: 12:00 PM
 End: 1:00 PM
 Pattern: Every Monday

2

Features

When you select a Feature in the drop down menu, any timer that asserts that Feature will appear in the Timers pane so that it may be selected for editing. For example, if Hall Call Eligibility is selected, any timer asserting the Hall Call Eligibility Feature is displayed and the particular hall call eligibility used is shown in the Configuration column. (The configurations that the timer tables select are created using parameters on the System Configuration and Security tabs in the iView application.) Feature selections include:

- Hall Call Eligibility
- Parking
- Parking Eligibility
- Mode of Operation
- Security (Requires password/log on. [Please refer to “Manage Passwords” on page 2-19.](#))
- Remote 01 - 04
- Active dispatching engine
- Silent Mode

Timer Details

When a timer is selected in the Timers pane, information about the timer appears in the Timer Details pane. (You must select a timer and click Edit to change settings, the Timer Details pane is read only.)

Timers

Configured timers are displayed in the Timers pane. If timers overlap (manage the same period of time), the timer appearing higher in the list will have priority (control). To move a timer within the list, click to select it, then click Move Up or Move Down.

Add a Timer To add a new timer to the list:

1. Click Add. The Add/Edit Timer dialog is displayed.
2. Enter a descriptive name for the timer - up to 25 characters.

3. From the Configurations pane, select the Configurations to be asserted when the timer is active. When creating a timer, at least one Configuration must be selected. Otherwise, the timer will not be created.

4. Select the repeat frequency (Recurrence type) of the timer:
 - Daily: Occurs every day.
 - Weekly (Day of the week): Occurs on the specified day or days of each week. Can start on one day and end on another.
 - Monthly (Day of week): Occurs on a day, day of the week, or multiple days each month. e.g., 1st, 2nd Tuesday or 3rd through the 5th.
 - Yearly: Occurs on a day or days of one or more months.
5. Click OK.
6. Click Send to send new information to the system.

To remove a timer

1. Select a feature type from the Features drop down menu.
2. Select a timer from the Timers pane.
3. Click Remove. Click Send to send new information to the system.

To edit a timer

1. Select a feature type from the Features drop down menu.
2. Select a timer from the Timers pane.
3. Click Edit; edit as needed. Options are the same as for adding a timer. Timers for each feature type are edited separately.
4. Click OK. Click Send to send new information to the system.

To move a timer A timer's position in the list determines its priority. If two timers are attempting control at the same time, the timer higher in the list has priority (control). To move a timer:

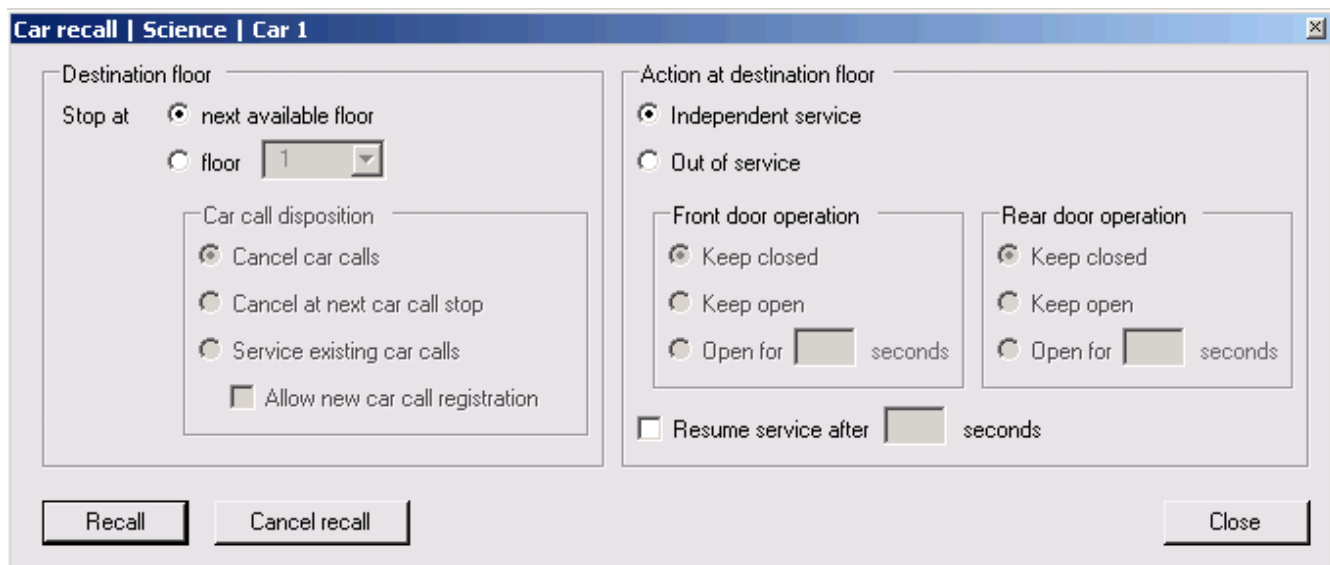
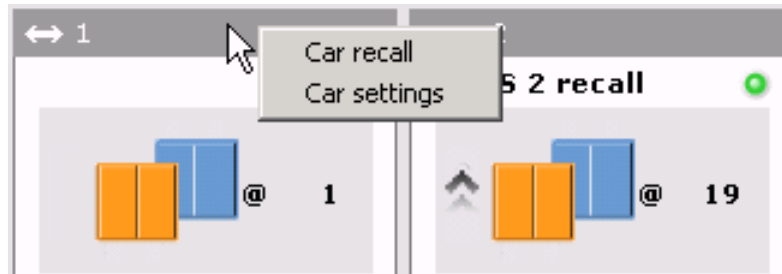
1. Select the timer from the Timers pane.
2. Click Move Up or Move Down. Click Send to send new information to the system.

No valid timer: For a particular feature, i.e., Parking, Mode of Operation, Auto Stop, etc., if Timed is selected and there is no valid timer created (current date and time falls within the timer's date(s) and times), those features will be defaulted to use Configuration 1.

Car Recall

You can access Recall settings for individual cars in a group:

1. Select Car Recall/Group name/Car from the Remote Control menu.
2. Or, from the Detailed or Multiple Hoistway displays, right-click on the car title bar and select Car recall (or Car settings) from the popup menu.



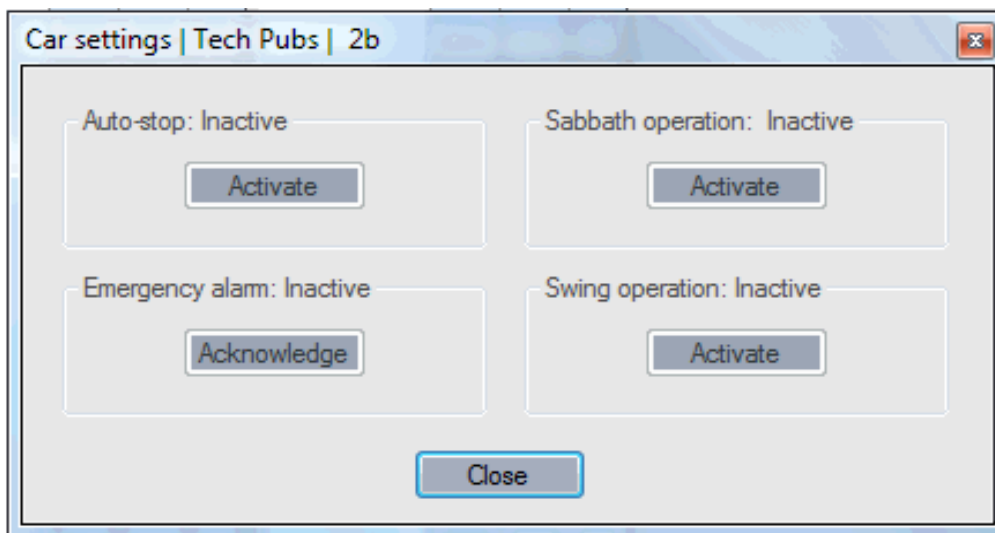
If the site is properly configured and connected, and if remote recall is authorized, you may set conditions for and recall a selected car in a displayed group.

1. Select the floor, next, or a particular destination, to which the car should recall.
2. Set Car Call Disposition:
 - Cancel car calls: Immediately cancel all car calls.
 - Cancel at next car call stop: Cancel all car calls upon arrival at the next stop.
 - Service existing car calls: Service all existing car calls but do not accept additional calls.
 - Allow new car call registration: Service existing calls and allow additional calls.
3. Set Action at Destination Floor:
 - Independent service: Put car in Independent Service upon arrival at destination floor.
 - Out of service: Put car out of service upon arrival at destination floor.

4. If Out of service option selected, set front and rear door operation:
 - Keep closed: Hold doors closed.
 - Keep open: Open doors and keep them open.
 - Open for XX seconds: Open doors for the entered number of seconds, then close them.
5. If the car should automatically resume service after a predetermined number of seconds, enable Resume service after XX seconds and set the time appropriately.
6. Click Recall to begin recalling the car (Cancel Recall to cancel, Close to close the dialog).

Car Settings

Depending upon site capabilities and options, car modes of operation may also be remotely selectable. The current status of each mode is displayed when the dialog is opened (i.e., Auto-stop: Enabled).

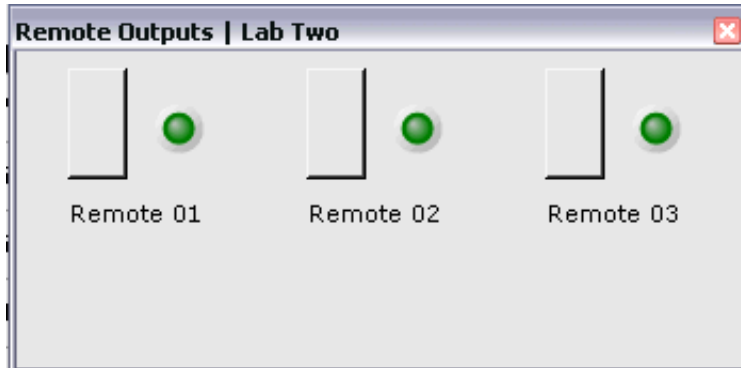


2

- Auto-stop: If the Auto-stop feature is enabled in iView, you may turn it On or Off from iMonitor.
- Sabbath: Activate/Deactivate Sabbath operation.
- Swing operation: Activate/Deactivate Swing operation. (Control inactive for Simplex car "groups" or if group control is currently residing on the selected car within a group (local group operation).
- Emergency Alarm: If an emergency alarm for a monitored car becomes active, you can acknowledge the alarm from this dialog. In order for this acknowledgment to work, software alarm acknowledgment must be enabled for the car through iView. Otherwise, only the hardware input to the car may be used to acknowledge alarms.

Remote Outputs

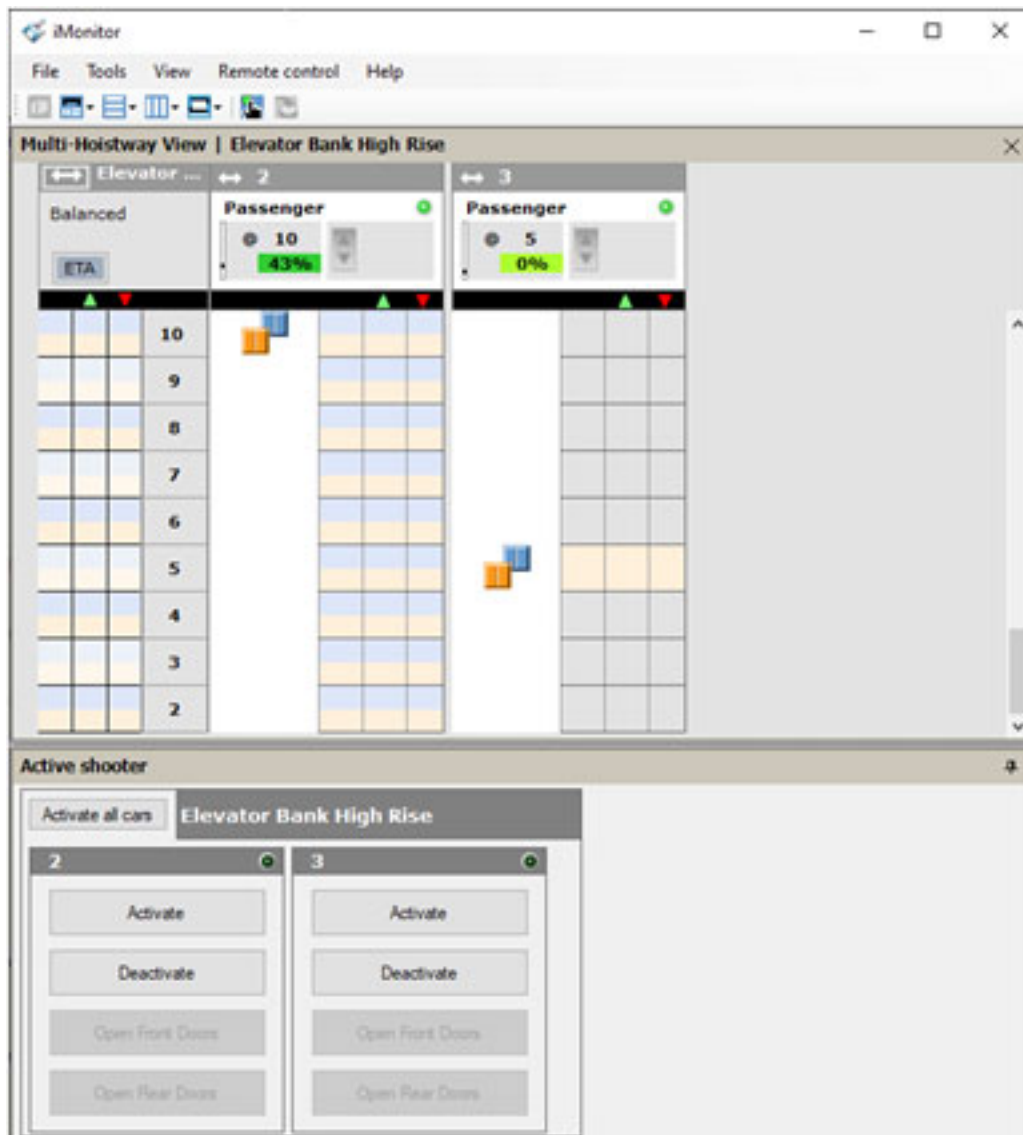
Customer configured Remote Outputs may be programmed through the iView application and may be remotely triggered through iMonitor.



- The outputs will be named as they were in iView
- Trigger an output by simply clicking the associated button
- Active outputs are indicated by a lighted LED
- Outputs will be latching or momentary as configured in iView

Active Shooter Operation

iMonitor allows setup for an Active Shooter mode that is intended to recall the cars to individual floors and shut them down in order to lock down the building and prevent the shooter from traveling to other floors. The Active Shooter controls are readily available and can be set on any iMonitor views. Each car can be configured on what to do with existing car calls, which floor to recall the car, and how to manage the doors once recalled. This operation can be initiated per group or per car.

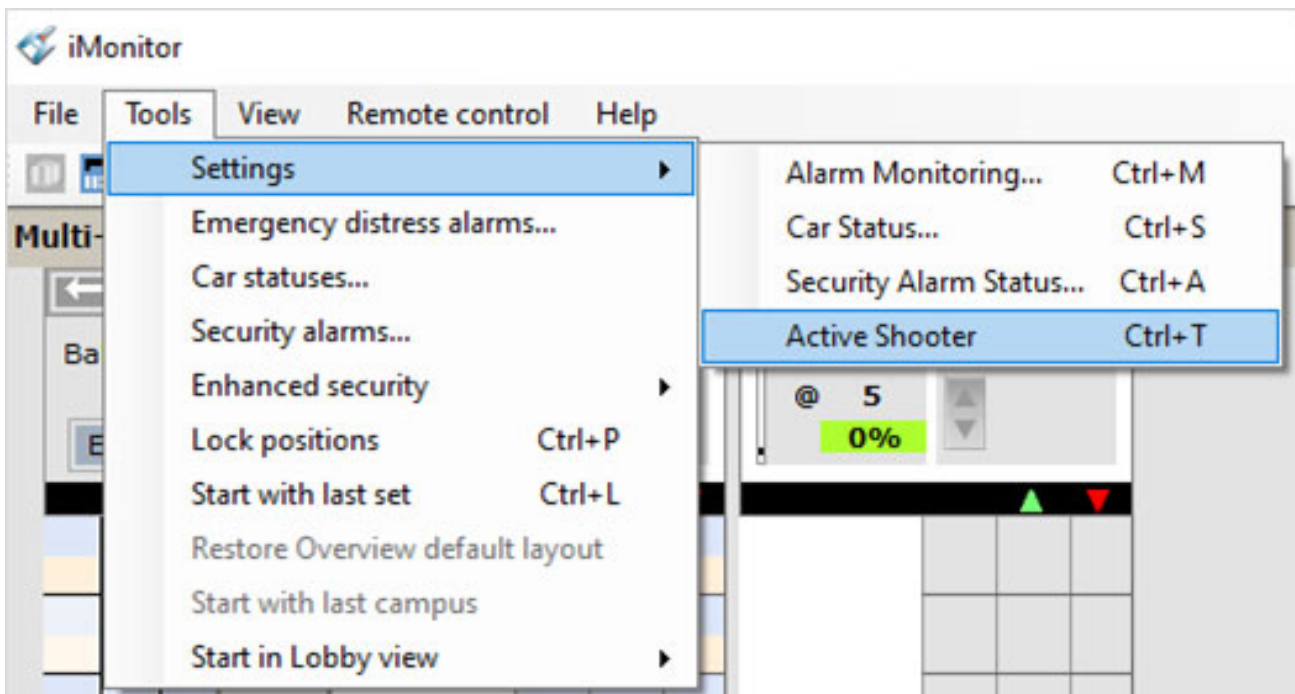




* When LED is on, Active Shooter Mode is active.

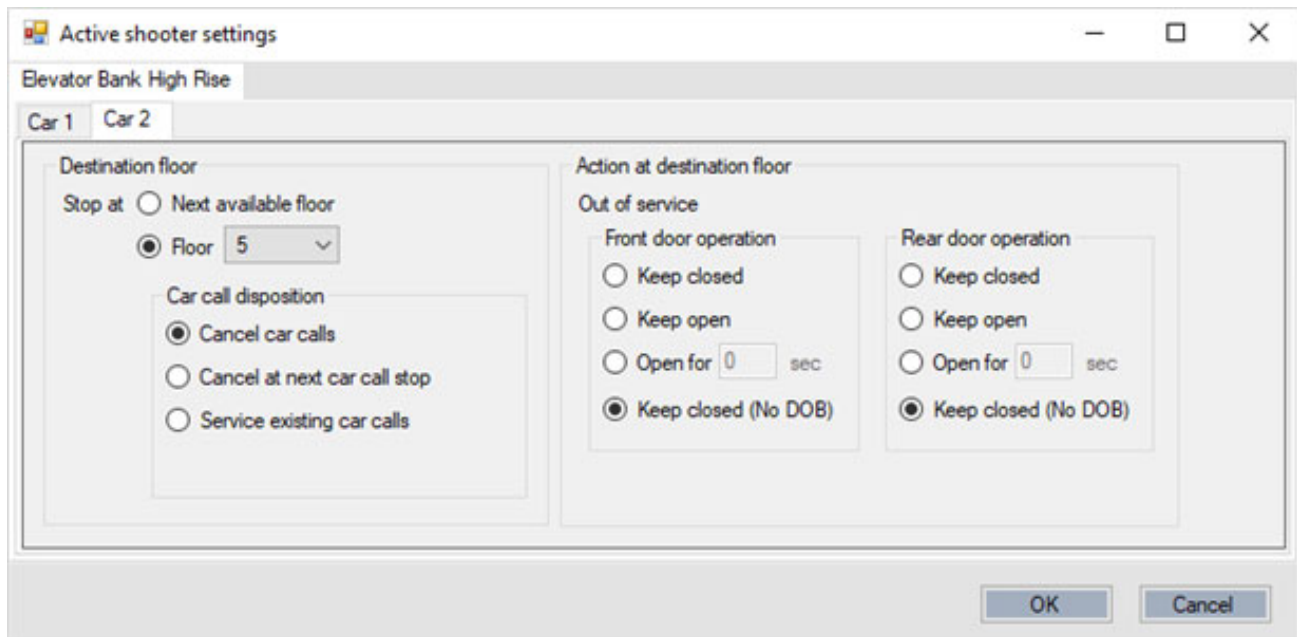
Setup

Configuration of each elevator for Active Shooter operation is done in the Tools > Settings > Active Shooter menu.



Each car in the group will have a tab for setup. The default setup for active shooter is to cancel all calls immediately and return the car to a specific floor. The door open button in the car can be disabled to allow authorities to get to the car before the door open command is sent from

iMonitor. Authorities can communicate to the iMonitor user to open the doors remotely to allow them to clear the car.



Application Notes:

2

Note 1: Fire Service overrides Active Shooter mode and all other elevator recall switches.

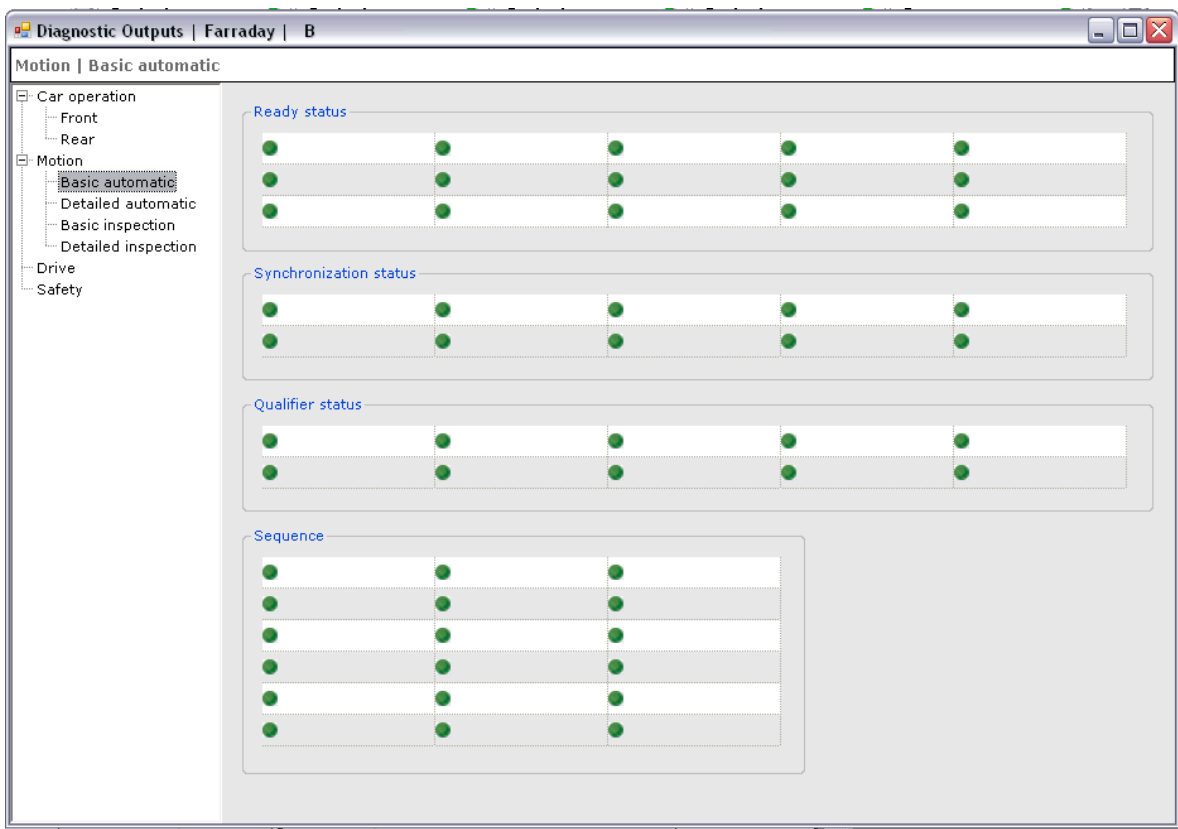
Note 2: iMonitor's elevator recall function can also be used with the Active Shooter recall to move the car to a different floor.

Note 3: Hardware Recall Switch inputs take priority over the software recall and Active Shooter initiated by iMonitor. For example, if a car to lobby switch is active and the Active Shooter is configured to take the car to a different floor, the car will stay at the lobby as long as the physical car to lobby switch is on.

Note 4: iMonitor Active Shooter Operation is currently only available for the iControl elevator controller platform.

Diagnostic Outputs

Allows you to view status of diagnostic outputs per car to aid in troubleshooting. Refer to the User Guide for the elevator controller. Select Remote/Diagnostic Outputs/Car ID.



Network Diagnostics

Network diagnostic screens allow you to review the TCP/IP settings for controllers in the group and for the Remote Client PCs.

Controller Information

The Network Diagnostics screen displays LAN and System IP addresses for the controllers in the elevator group. Using this screen, along with the IP information in Section 1 of this manual,

you can verify that LAN and System IP addresses are correct. Please refer to “MCE iControl Ethernet” on page 1-8.

Car	LAN IP	System IP
Car 1	10.10.52.13	192.168.192.001
Car 2	10.10.52.13	192.168.192.002
Car 3	10.10.52.14	192.168.192.003
Car 4	000.000.000.000	192.168.192.004
Car 5	000.000.000.000	192.168.192.005

2

Remote Clients

The Remote Clients screen displays IP, application, and access information for the Remote Client PCs currently connected to the group.

Connection	Application	Company	IP Address	Port Number	Connection Time	Write Privilege	Time Remaining	Security Access
Connection 1	iView	MCE	10.10.12.64	22286	12/7/2009 10:50:29 AM	Not Available	Not Available	Not Available
Connection 2	iMonitor	MCE	10.10.11.228	38404	12/8/2009 9:03:52 AM	Not Available	Not Available	Not Available
Connection 3	Not Connected							
Connection 4	Not Connected							
Connection 5	Not Connected							
Connection 6	Not Connected							
Connection 7	Not Connected							

- Application: Displays the application being used - iView, iReport, iMonitor, or third party software.
- Company - the company associated with the application.
- IP Address - the IP address of the connected PC.
- Port Number - the Port assigned to the connection.
- Connection Time - the date and time of connection.
- Write Privilege - indicates whether or not the connection has been allowed write privileges
- Time Remaining - time remaining until the connection times out
- Security Access - indicates whether or not the connection has security access

Sabbath

This screen allows you to configure car behavior during Sabbath operation.

☒ Enable Sabbath operation

☒ Allow hall call service
☒ Allow car call service
☐ Finish existing car calls
☒ Nudging

Sabbath operation recall:

Sabbath operation start floor:

Sabbath operation return floor:

Sabbath trip interval timer: min

Sabbath door open timer: sec

Arrival lanterns:

☒ Enable
☐ Disable
☐ Activate both up and down

Status:

Sabbath service ON ●

Sabbath Operation Floors

	Front	Rear
12		
11		
10		
9		
8		
7		
6		
5		
4	✓	✓
3	✓	✓
2	✓	✓
1	✓	✓

Programmable options for Sabbath operation include:

- **Enable Sabbath Operation:** Must be checked for Sabbath operation to be activated/deactivated. Otherwise Sabbath operation is disabled.
- **Allow hall call service:** Check to allow existing hall calls to be served and new hall calls to be registered while on Sabbath operation.
- **Allow car call service:** Check to allow existing car calls to be served and new car calls to be registered while on Sabbath operation.
- **Finish existing car calls:** When Sabbath operation is activated, the car will service all existing car calls before beginning Sabbath operation.
- **Nudging:** Reduces door closing speed and torque during Sabbath operation.
- **Disable car call button indicators:** The car call buttons will not illuminate in response to automatically generated Sabbath operation calls or call button activation.
- **Disable position indicators:** During Sabbath operation the position and direction indicators shall be disabled (except for CE Electronics displays).
- **Disable load weighing functions:** During Sabbath operation the elevator's load weighing functions shall be disabled (except for pre-torquing).
- **Disable COP door buttons:** During Sabbath operation all of the COP door buttons shall be disabled.
- **Sabbath operation recall floor:** When Sabbath operation is activated, if a recall floor is designated, the car will first recall to this floor before beginning Sabbath operation service.
- **Sabbath operation start floor:** When Sabbath operation is activated, after traveling to the recall floor (if designated), the car will travel to the start floor (if designated) before beginning Sabbath operation service. The start floor options are:
 - **Bottom (unidirectional)** = Start at the bottom floor and travel up, stopping at designated Sabbath floors until the top designated floor is reached. What happens next is determined by the Sabbath trip interval timer and Sabbath operation return floor parameters.
 - **Top (unidirectional)** = start at the top floor and travel down, stopping at designated Sabbath floors until the bottom designated floor is reached. What happens next is determined by the Sabbath trip interval timer and Sabbath operation return floor parameters.
 - **Current up (bidirectional)** = start at the current floor and travel up (unless down preference exists, in which case travel down), stopping at designated Sabbath floors until the top/bottom designated floor is reached. Then, if all designated floors have not been served at least once, reverse direction, stopping at designated floors until the bottom/top designated floor is reached. What happens next is determined by the Sabbath trip interval timer and Sabbath operation return floor parameters.
 - **Current down (bidirectional)** = start at the current floor and travel down (unless up preference exists, in which case travel up), stopping at designated Sabbath floors until the bottom/top designated floor is reached. Then, if all designated floors have not been serviced at least once, reverse direction, stopping at designated floors until the top/bottom designated floor is reached. What happens next is determined by the Sabbath trip interval timer and Sabbath operation return floor parameters.
- **Sabbath operation return floor:** The car shall travel to the return floor (if specified) after it has finished servicing all of the Sabbath floors (at least once). Select None or any floor.

- Sabbath trip interval timer: Specifies the interval between Sabbath operation trips. During the time between trips, the car operates in Passenger mode. A value of Non-stop = continuous Sabbath operation.
- Sabbath door open timer: Specifies the amount of time the doors shall remain open at each floor during Sabbath operation.

Arrival lanterns During Sabbath operation the arrival lanterns shall operate as follows:

- Enable: Arrival lanterns are enabled.
- Disable: Arrival lanterns are disabled.
- Activate both up and down: (not used)

Status

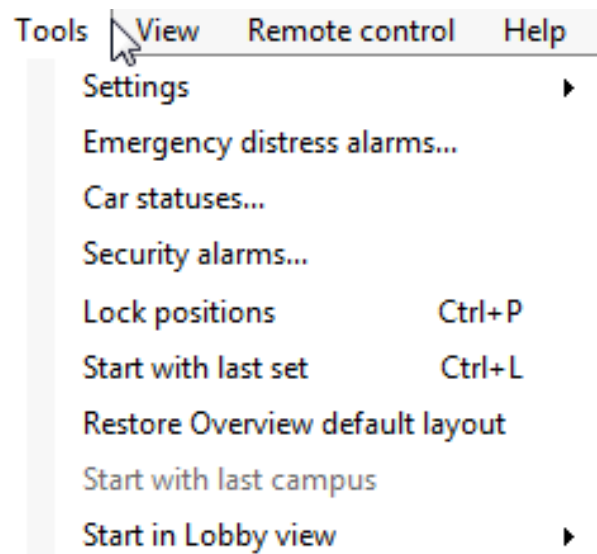
- Sabbath service ON: LED lights green when Sabbath operation is On.
- Activate/Deactivate button: Software command used to turn Sabbath operation On or Off. When Sabbath operation has been activated, the button caption changes to “Deactivate”. Sabbath operation can also be activated/deactivated via a key switch-input, iMonitor command or a timer.

Sabbath Operation Floors Specifies the floors (front, rear or both openings) that are to be serviced during Sabbath operation.

- To add or remove the check mark in an individual cell, click the cell.
- To add or remove check marks from a group of cells, click and drag to select the cells, then click Select or Deselect.
- To add or remove check marks from a whole column, click the column label, then click Select or Deselect.

Tools Menu

Tools menu selection allows you to make car alarm settings, check status of individual cars, or determine how the display will appear when iMonitor is next started.

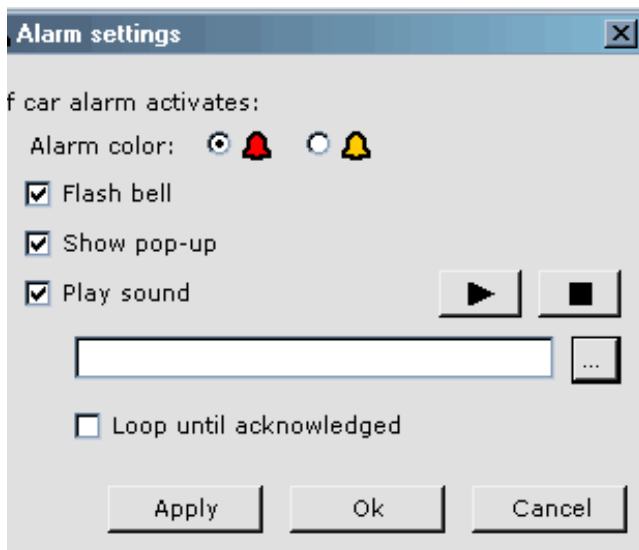


Settings

Settings accesses alarm, car status, and security alarm status notification options.

Alarm Monitoring

- Tools/Settings/Alarm Monitoring: Opens the alarms setting dialog.



- Choose alarm symbol color.
- Choose whether the alarm displays solidly or flashes.

Note

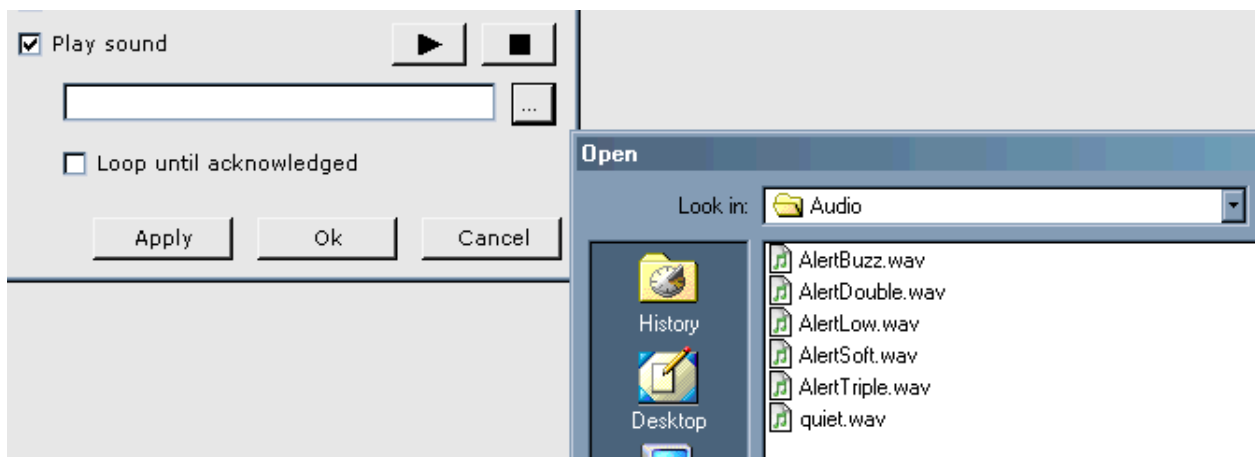
For iControl, Alarm Monitoring must also be enabled through iView before it is available in iMonitor (Car Operations/Devices tab).

- Choose whether the acknowledge popup is displayed automatically when the alarm is activated:

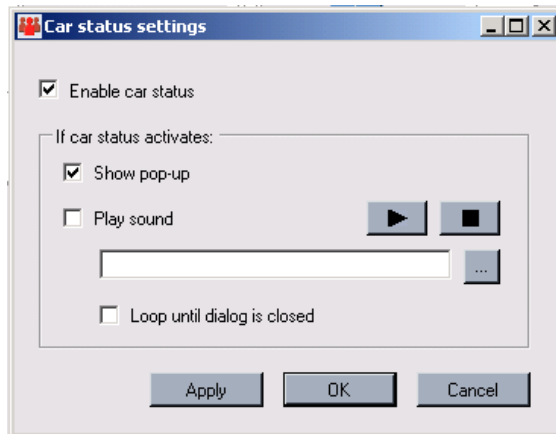


- Choose whether an audio alarm should sound, what that sound should be, and whether it should play a single time or repeat (loop) until the alarm is acknowledged:

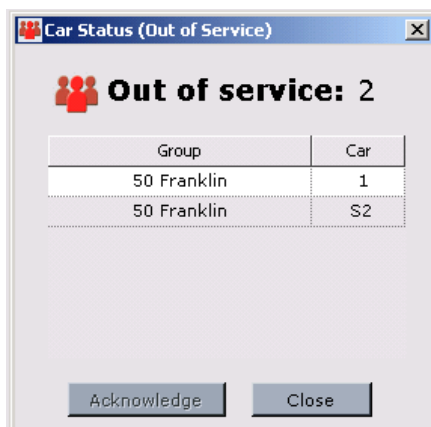
2



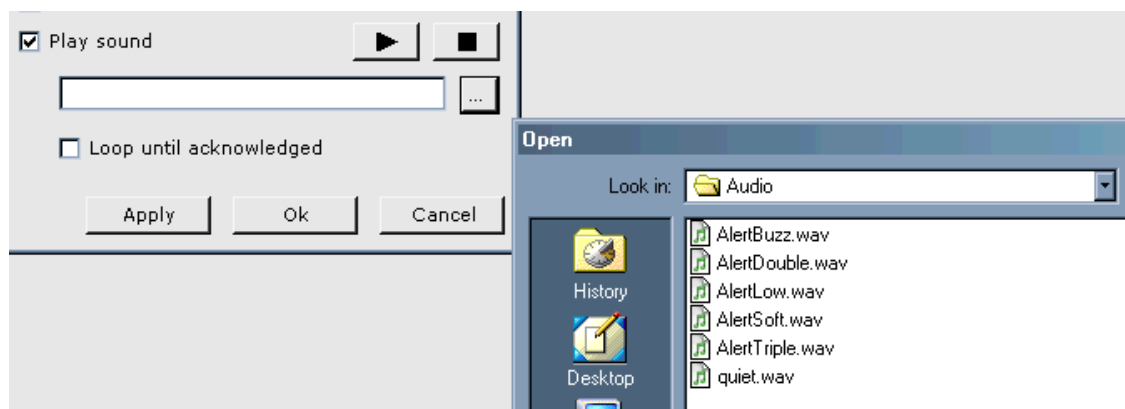
Car Status Car Status allows you to enable and configure car status reporting to alert the iMonitor user when a car is not being dispatched by the group control, i.e., is out of service, on swing operation, etc.



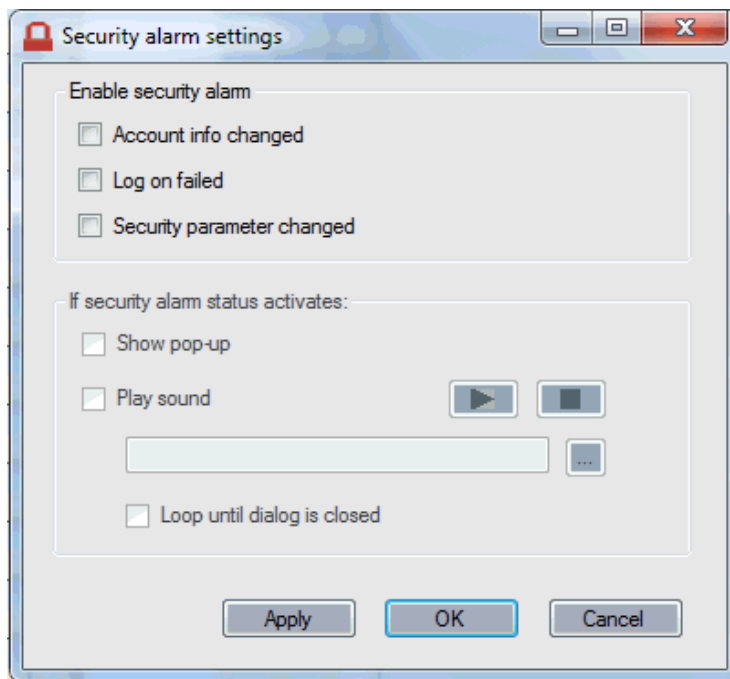
- Enable car status: Select to activate car status reporting (operating mode reporting).
- Show pop-up: Select if you want a pop-up dialog to appear when car status changes.



- Play Sound: Choose whether an audio alarm should sound, what that sound should be, and whether it should play a single time or repeat (loop) until the status popup is acknowledged:



Security Alarm Status



- Enable security alarm: Allows you to set up security alarms in response to the selected criteria.
- If security alarm status activates: Allows you to determine how you will be notified of a security alarm. There are several prerecorded sounds available. You may also create your own .wav files.

2

Emergency Distress Alarms

When selected, Tools/Emergency Distress Alarms displays any active distress alarm from any car in the group. This is an alternative to automatically displaying alarm pop-ups. For iControl, Alarm Monitoring must also be enabled through iView before it is available in iMonitor (Car Operations/Devices tab).

Car Status

When selected, Tools/Car Status displays any active car status dialogs from any car in the group. This is an alternative to automatically displaying status pop-ups.

Security Alarm Status

When selected, Tools/Security Alarms displays any active security alarms, providing number of active alarms along with Group, Alarm description, and Time stamp for each. You may choose to acknowledge the alarms individually or all-at-once.

Additional Tools Menu Selections

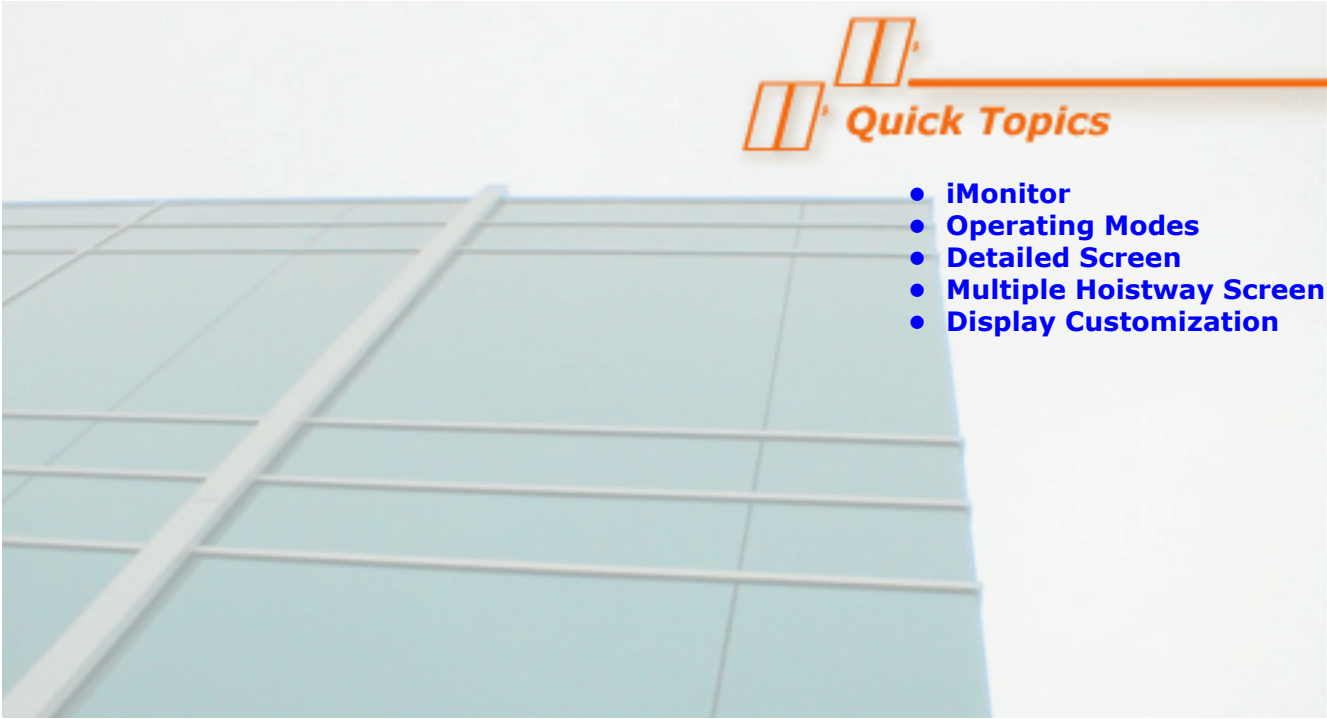
- Lock positions, when selected, prevents resizing or moving group displays on the overview screen.
- Start With Last Set: If you want iMonitor to startup with the last displayed Connection Set active, make that selection here.
- Restore Overview Default Layout: To restore the default, Overview layout, select that option here.
- Start With Last Campus: If you want iMonitor to start up with the last campus view displayed, make that selection here.
- Start In Lobby View: If you wish to start in Lobby view, make that selection here.

Help Menu

- To display version information, select About iMonitor from the Help menu. When appropriate, selections in the information panes are expandable to display multiple programmable device software versions.



- To open online help, select Help from the Help menu.



Quick Topics

- **iMonitor**
- **Operating Modes**
- **Detailed Screen**
- **Multiple Hoistway Screen**
- **Display Customization**



Reference

iMonitor

This section provides detailed information useful to iMonitor operators.

- [Operating Modes](#)
- [Connections](#)
- [Detailed screen explanation](#)
- [Multiple hoistway screen explanation](#)
- [Display Customization](#)

Operating Modes

iMonitor displays the currently active operating mode for each car. An elevator may operate in one of many modes:

- **Attendant Service:** Usually initiated by a key-operated switch inside the car to allow the elevator to be operated by an in-car Attendant. While on Attendant service, hall and car call buttons remain active. The elevator will respond to car calls that have been enabled via different settings as specified by the car call eligibility and card reader options. During Attendant service, the Attendant inside the car controls direction of travel using the Attendant service Up and Down switches. The Attendant can also bypass hall calls using the Attendant service Non-Stop switch. Door operation is typically automatic open with constant pressure on the door close button required to close the doors. User settings are available to modify door operation if desired.
- **Capture:** The car has been placed in Capture mode using the Capture switch on the iBox. When placed in Capture mode, the car is taken out of public service. It will not respond to hall call demand or parking instructions. It will continue to service car call demand so that current passengers are not inconvenienced. The intent is to allow the car to service current passengers and then remain empty at the last serviced floor so that it may be captured for test, adjustment, or other non-passenger use.
- **Car Panel Inspection:** The car has been placed on Inspection mode using the car operating panel switch. Car panel inspection switches are then used to move the car.
- **Cartop Inspection:** The car has been placed on Inspection mode using the cartop switch. The cartop Up, Down and Safe/Enable switches are used to move the car.
- **CFSS Mode 1 (2) at Floor:** Commandeer for Special Services - The car has recalled to the CFSS floor and is waiting for a person to commandeer it according to the settings selected on the iView Configuration > Car Operation > CFSS > Mode 1 (2) tab.
- **CFSS Mode 1 (2) In-car:** Commandeer for Special Services - The in-car switch has been activated (or the car is at the recall floor if no switch). Car behavior is determined by the In-car settings on the iView Configuration > Car Operation > CFSS > Mode 1 (2) tab.
- **CFSS Mode 1 (2) Recall:** Commandeer for Special Services - A CFSS call has been initiated via a hall switch. Any other hall calls will be unassigned from the car. Any existing car calls will be disposed of according to the Recall settings selected on the iView Configuration > Car Operation > CFSS > Mode 1 (2) tab and the car will then recall to the floor at which the CFSS call was latched.
- **Construction Car Panel Inspection:** Construction mode is enabled (iView Configuration > Safety tab), and the car operation panel inspection switch has been activated. However, while in Construction mode, the car panel inspection switches are ignored. The car can only be operated via the machine room or cartop inspection switches while in Construction mode.
- **Construction Cartop Inspection:** Construction mode is enabled (iView Configuration > Safety tab), allowing the car to be run on Inspection with a bare minimum of field wiring installed, and the cartop Inspection switch has been activated. Use the cartop Up, Down and Safe/Enable switches to move the car. Place the car on machine room or cartop inspection and operate the car with the appropriate switches.

- **Construction Hoistway Access Inspection:** Construction mode is enabled (iView Configuration > Safety tab), and the hall mounted Access switch has been activated. However, while in Construction mode, the hoistway access inspection switches are ignored. The car can only be operated via the machine room or cartop inspection switches while in Construction mode. Place the car on machine room or cartop inspection and operate the car with the appropriate switches.
- **Construction Inspection:** Construction mode is enabled (iView Configuration > Safety tab), allowing the car to be run on Inspection with a bare minimum of field wiring installed, and the car is operating on Inspection operation. The car can be moved using either the cartop or machine room inspection operation switches.
- **Construction Machine Room Inspection:** Construction mode is enabled (iView Configuration > Safety tab), allowing the car to be run on Inspection with a bare minimum of field wiring installed, and the iBox INSPECTION switch has been placed in the INSP position. Use the iBox Up, Down and Enable switches to move the car.
- **EMS In-car (Switch 1 / 2):** Emergency Medical Service - The EMS in-car switch has been activated. The car remains on EMS operation until it is returned to the recall floor and the in-car switch is deactivated or times out.
- **EMS Recall (Switch 1 / 2):** Emergency Medical Service has been activated via a hall switch (1 or 2). Car behavior, including the designated recall floor, is determined by the General settings on the iView Configuration > Car Operation > EMS > Switch 1 (2) tab.
- **Fire Service In-car:** In-car Firefighter Service has been activated via the in-car fire service key-switch. Car and door behavior is determined by the fire code settings on the iView Configuration > Car Operation > Fire service > Fire code > In-car tab.
- **Fire Service Recall Alternate:** Fire Recall Operation (Phase I), to the alternate fire recall floor has been initiated. Generally this is initiated by the activation of a smoke detector at the main fire recall floor. The car proceeds to the alternate fire recall floor designated on the iView Configuration > Car Operation > Fire service tab. Car and door behavior is determined by the fire code settings on the iView Configuration > Car Operation > Fire service > Fire code > Recall tab.
- **Fire Service Recall Main:** Fire Recall Operation (Phase I), at the main fire recall floor, has been initiated. Generally this is initiated by the activation of a smoke detector on a floor other than the main fire recall floor. Can also be initiated by the activation of the fire recall switch input. The car proceeds to the main fire recall floor designated on the iView Configuration > Car Operation > Fire service tab. Car and door behavior is determined by the fire code settings on the iView Configuration > Car Operation > Fire service > Fire code > Recall tab.
- **Hoistway Access:** The car has been placed on Hoistway Access Inspection mode using one of the hall panel mounted switches. The car can be positioned to allow access to the cartop or bottom.

- **Independent Service:** Independent service is usually initiated by a key-operated switch inside the car to allow the elevator to be operated by an in-car Attendant. While on Independent service, hall call buttons and lamps for the elevator are disabled. The elevator will respond only to car calls that have been enabled via different settings as specified by the car call eligibility and card reader options. Door operation is typically automatic open with constant pressure on the door close button required to close the doors. However, user settings are available to modify door operation if desired.
- **Inspection:** One of the inspection modes (in-car, machine room or cartop) is active and the car is operating in Inspection mode. Inspection acceleration profile parameters are used.
- **Machine Room Inspection:** The car has been placed on Machine Room Inspection using the iBox Inspection switch. (All other Inspection modes must be inactive before Machine Room Inspection may be enabled.)
- **Passenger:** The car is operating in normal passenger mode, responding to dispatching and parking instructions and to hall and car call demands. Car and door operation are determined by settings on the iView Configuration > Car Operation > Passenger tab.
- **Sabbath Operation:** The elevator is operating in Sabbath mode initiated by a software command, switched input, or timer. Sabbath mode allows the elevator to operate, serving the building without requiring buttons to be pressed for hall calls or car calls. Car behavior is determined by parameters located on the Remote Control > Sabbath operation tab.



Note

Test: Indicates that the iBox Test switch is in the Test position and the elevator is in Test mode, generally used to adjust or test the elevator. The elevator operates the same as in normal passenger mode except that the doors are disabled and no hall calls are registered.



Note

Commandeer for Special Service is a special operating mode, much like EMS (Code Blue). Typically, a keyed switch is installed at a particular floor. When the switch is activated, the car disposes of existing car calls as programmed in the iView application, and recalls to a designated floor. At the floor, phase II (operation in the mode) is initiated either by activation of a switch in the car or simply by placing a car call (as programmed in iView). A timer in iView may be programmed so that, if the car has waited at the recall floor the set period of time and phase II has not been initiated, the car will automatically return to the prevailing service mode.

Nidec MCE

Connections

The Connections screen allows you to create connections for elevator groups to be monitored.

Click to delete the connection

New Connection Set

Connections | Building Configuration (iLobby)

Alternate Connection lists must match their Alternate Dispatcher's Auto-select Preference Order

Primary Connections

	Connection name	IP address	Hardware Type	Device ID	
1					X
2					X
3					X
4					X
5					X
6					X
7					X
8					X
9					X
10					X

Alternate Connections

	Connection name	IP address	Device ID	
1				X
2				X
3				X
4				X
5				X
6				X
7				X
8				X
9				X
10				X

OK Cancel

Click to save changes

3

Connections Tab

- Connection name: Provide a logical name for the group.
- IP address: Provide the group IP address. Refer to connection information in Section 1 of this manual for information about IP addressing. [Please refer to “MCE iControl Ethernet” on page 1-8.](#)
- Hardware Type: iMonitor works with equipment including -
 - iCue: Stand alone, group controller for iControl elevator groups.
 - iBox (Alternate Dispatcher): An iControl elevator controller that is the alternate group controller should the iCue fail.
 - iBox (Simplex): An iControl elevator control operating as a simplex elevator.
 - Swing Panel (Group): A central, stand alone group controller for a group of IMC elevators.
 - Swing Panel (Simplex): An IMC elevator control operating as a simplex elevator.
 - Hydro (Duplex): HMC hydraulic controller functioning as a dispatcher for one additional HMC controller.
 - Hydro (Simplex): HMC hydraulic controller operating as a simplex elevator.
 - Traction (Duplex): PTC traction controller functioning as a dispatcher for one additional controller.
 - Traction (Simplex): PTC traction controller operating as a simplex elevator.
 - M3000ES: Motion 3000 escalator controller.
 - M2000 (Simplex): Motion 2000 hydraulic controller operating as a simplex elevator.
 - M2000 (Duplex): Motion 2000 controller functioning as a dispatcher for one additional controller.
 - M Group: Motion elevator group controller.
 - M4000 (Simplex): Motion 4000 controller operating as a simplex elevator.
 - M4000 (Duplex): Motion 4000 controller functioning as a dispatcher for one additional controller.
 - Third Party Escalator: Properly equipped third party escalator controller.
 - OMI: Overlay Monitor Interface. Third party equipment requiring special overlay monitoring hardware to connect to iMonitor.
 - ZXX N100: ZXX controller equipped with the N-100 interface board.
- Device ID: Assigned automatically by iMonitor when information entered on the Connections screen is saved. Or, when defining Alternate Connections, set to the same as the Car ID.

Alternate Connections

When an elevator controller or group dispatcher is acting as a backup dispatcher for a dispatcher or other controller, it is an Alternate connection. iMonitor always first attempts to establish communication with the primary connection. If that connection cannot be established, iMonitor attempts to establish communication with the Alternate connection.

iControl Alternates To create alternate connections:

1. On the Connections Set tab, highlight the **Primary Connection**.
2. Any currently defined **alternate connections** for **that** primary connection will appear in the Alternate Connections pane below. A Primary Connection must be selected before any existing Alternate Connections are visible or editable.
3. To designate alternates to appear in the list, connect to the dispatcher (iCentral or iBox) through the **iView** connection.
4. On the System Configuration, Building tab, select alternate dispatchers and designate them to be activated manually or automatically. Auto selected cars will appear in the Auto-select list.
5. Move desired cars from the Local Cars list to the Alternate Dispatcher list and order them top-to-bottom as you want them to be activated. Save changes.

Box shown here is on the iMonitor screen

This is the iView System Configuration, Building tab screen

Car ID = Device ID

Car Labels

Car ID

Car	Car label
5	C
4	4
3	B
2	2
1	A

Device ID	X
5	X
3	X
1	X

Dispatcher iCentral

Alternate Dispatcher

Cars A

Manual Select

Auto Select

Auto-select

Local Cars

Alternate Dispatcher

2 4

B C A

Up

Down

Back in iMonitor, set hardware type and Device ID for the alternates:

1. From the drop down, select the hardware type of the alternate.
2. From the Device ID drop down, set the ID to match the Car ID from the iView screen.
(Car ID = Device ID)

The screenshot shows the 'New Connection Set' dialog box with the 'Connections' tab selected. The 'Building Configuration (iLobby)' is set. The 'Primary Connections' table has one entry: 'iCup' with IP address '192.168.191.201' and hardware type 'iCup'. The 'Alternate Connections' table is highlighted with a red box and contains three entries: 'Car 5' (IP: 192.168.191.005, Hardware: iBox (Alt), Device ID: 5), 'Car 3' (IP: 192.168.191.003, Hardware: iBox (Alt), Device ID: 3), and 'Car 1' (IP: 192.168.191.001, Hardware: iBox (Alt), Device ID: 1). The 'OK' and 'Cancel' buttons are at the bottom right.

Primary Connections				
	Connection name	IP address	Hardware Type	Device ID
1	iCup	192.168.191.201	iCup	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

Alternate Connections				
	Connection name	IP address	Hardware Type	Device ID
1	Car 5	192.168.191.005	iBox (Alt)	5
2	Car 3	192.168.191.003	iBox (Alt)	3
3	Car 1	192.168.191.001	iBox (Alt)	1
4				
5				
6				
7				
8				
9				
10				
11				

Motion Alternates To create alternate connections:

1. On the Connections Set tab, highlight the **Primary Connection**.
2. If any currently defined **alternate connections** for **that** primary connection exist, they will appear in the Alternate Connections pane. A Primary Connection must be selected before any existing Alternate Connections are visible or editable.
3. To create an alternate, click in the name field for the first available Alternate connection and provide a logical name for the connection.
4. Provide the IP address and hardware type. Ignore Device ID; it is assigned internally.
5. Click **OK** to save your information.

Building Configuration / iLobby Tab

Activating this tab accesses screens that allow you to set up the iLobby display.

General

1. Click on the Building Configuration tab.
2. Select the group to be configured for display.

Edit Connection Set

Connections | Building Configuration (iLobby)

Primary connections: 50 Franklin

Changes in any building configuration value requires closing and reopening the application to have the corresponding changes in Lobby View.

General | Building floor heights | Per car settings

Number of cars: 0

Number of floors: 0

Lobby floor: 1

Car height: 0

Show registered hall call: ☐

Show time: ☐

Show date: ☐

Show "You Are Here": ☐

* Required fields

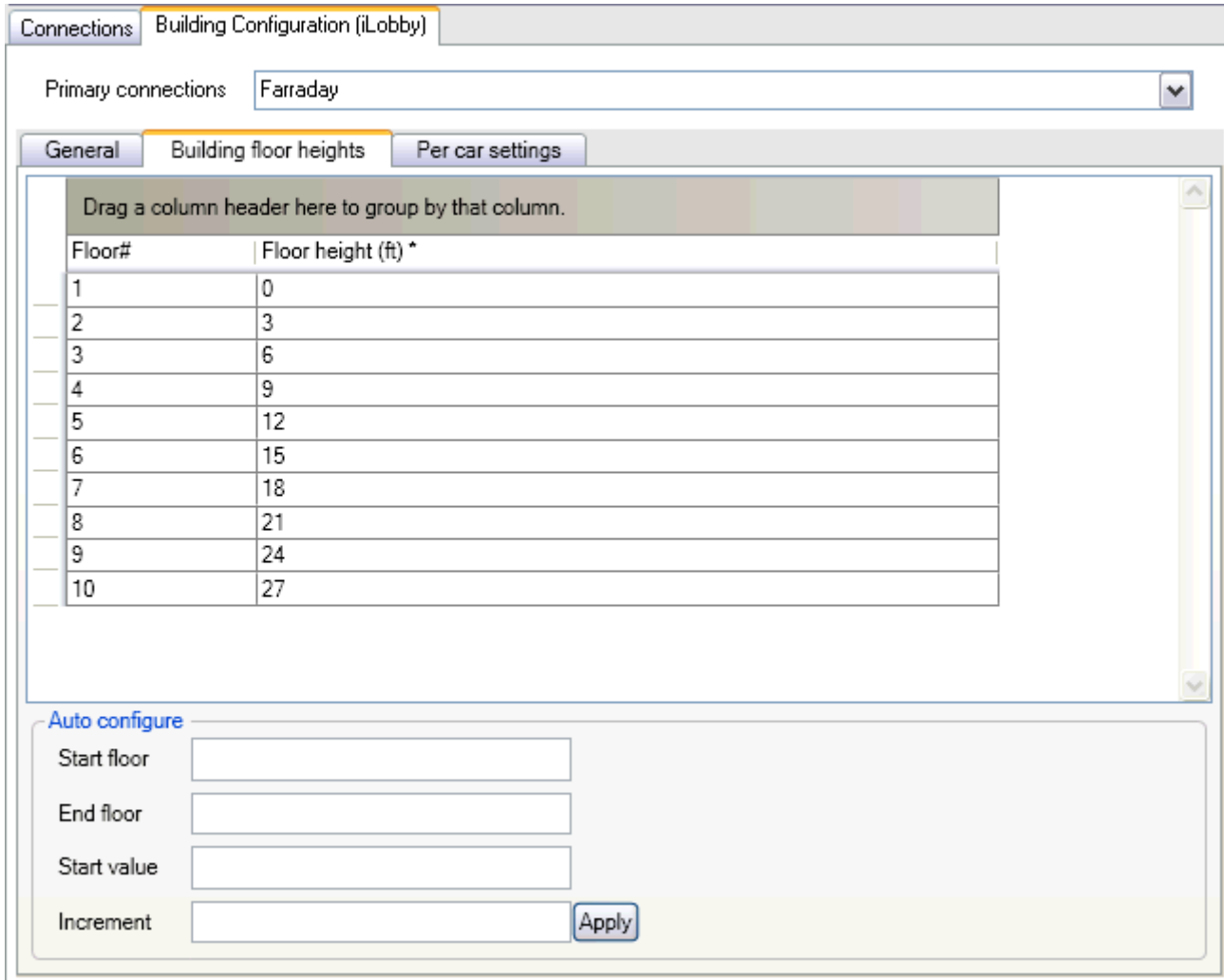
OK Cancel

3

3. Enter the number of cars in the group.
4. Enter the number of floors served by the group.
5. Enter the lobby floor for the group.
6. Enter the height of the cars in the group.
7. Enable “**Show registered hall call**” to show the system hall call riser on the lobby display.
8. Time and Date are not yet active.
9. Enable “**Show You Are Here**” to display a star at the Lobby floor.

Building floor heights

The floor heights are to be defined on this screen so that the cars appear in the correct positions on the lobby display.



The screenshot shows the 'Building Configuration (iLobby)' window. The 'Primary connections' dropdown is set to 'Farraday'. The 'Building floor heights' tab is selected, showing a table with floor numbers and heights. Below the table is an 'Auto configure' section with input fields for 'Start floor', 'End floor', 'Start value', and 'Increment', along with an 'Apply' button.

Floor#	Floor height (ft) *
1	0
2	3
3	6
4	9
5	12
6	15
7	18
8	21
9	24
10	27

Auto configure

Start floor:

End floor:

Start value:

Increment:

Per Floor Entry

1. Enter the height in feet up to two decimal places. (Example: 8.25 = 8 feet, 3 inches.)
2. Obtain the learned floor heights from the iView building configuration.
3. Distances accumulate. For example, if the first floor is 0.5 feet and the second floor is 8.5 feet, the third floor will be something like 16.5 feet (current floor plus preceding).

Auto Configure

Enter a starting and an ending floor, a starting value (first floor height), and a common floor height to increment by (say 10 feet). Click Apply and the floor heights table will populate automatically. You can then edit it as needed.

Per Car Settings

The offset and door times for each car are to be defined on this screen.

Connections Building Configuration (iLobby)

Primary connections Farraday

General Building floor heights Per car settings

Drag a column header here to group by that column.

Car#	Bottom floor offset (ft) *	Door opening time (sec) *	Door closing time (sec) *
1	0	3	3
2	0	3	3
3	0	3	3
4	0	3	3
5	0	3	3

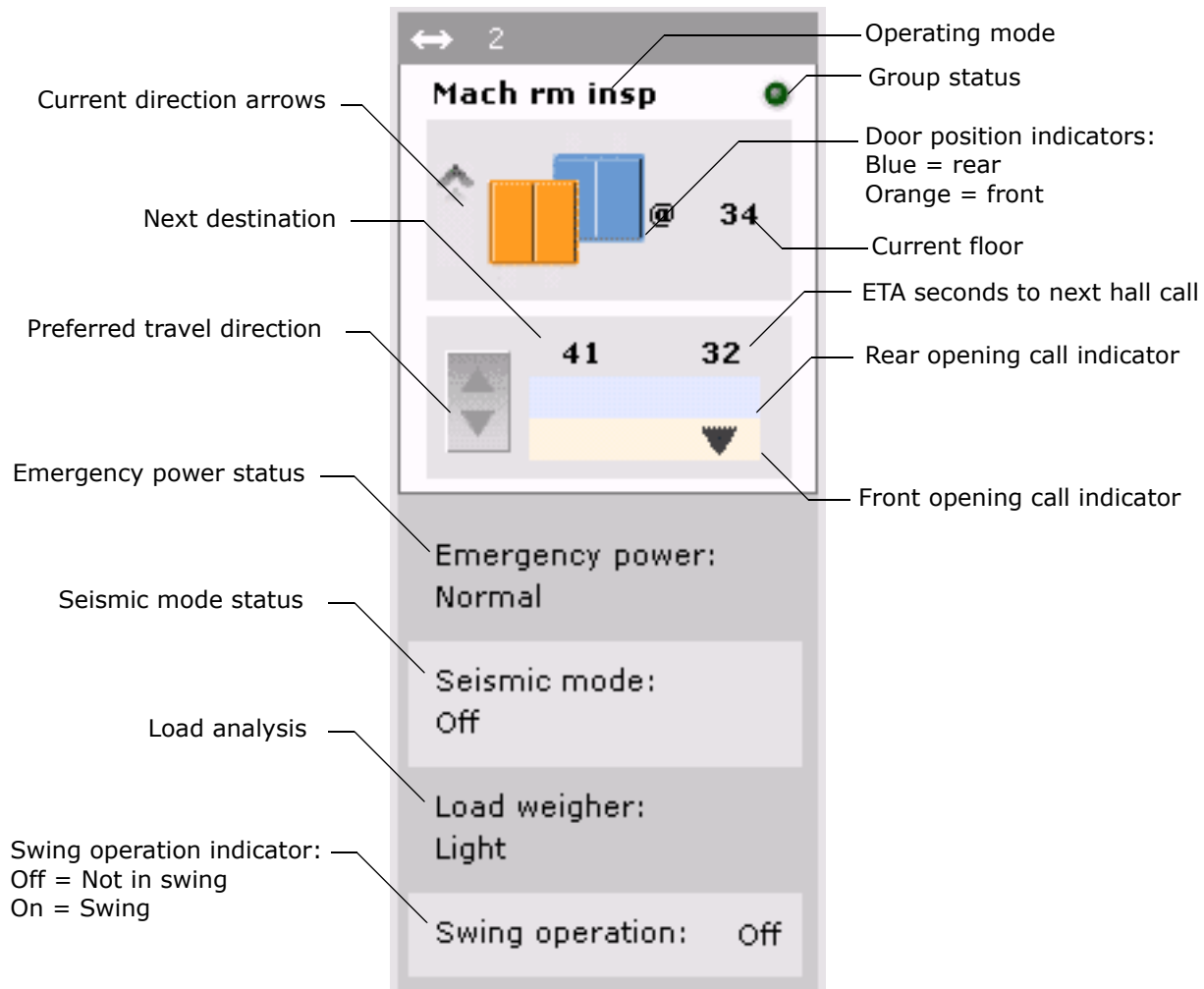
- Bottom Floor offset: If a car does not serve the bottom floor of the group, provide an offset value equal to the height of the lowest floor it does serve.
- Door Opening Time: The time in seconds it takes this car to open its doors.
- Door Closing Time: The time in seconds it takes this car to close its doors.

Detailed View Explanation

The Detailed View screen narrows the focus to a single elevator group, providing more information per car.

- Select Detailed View/Group name from the View menu.

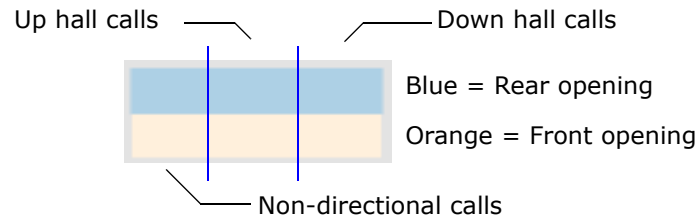
For as many cars as are in the selected group, you will see the following per car information.



- Operating mode: [Please refer to "Operating Modes" on page 3-2.](#)
- Group Status: Lighted = Under group control. Dark = Not in group control.
- Door position indicators: Real time door position. Blue = Rear. Orange = Front.
- Current floor: Floor elevator is at or passing.
- Current direction arrows: Animated travel direction indicators.
- Next destination: Floor of next stop.
- Preferred travel direction: Direction in which the elevator prefers to move from the current location.
- ETA: ETA to Next destination (if a hall call).
- Rear opening call indicator: Indicates call/direction for rear hall calls.
- Front opening call indicator: Indicates call/direction for front hall calls.

Note

The front/rear hall call indicator bands are separated as follows:



- Non-directional calls: “Hall” calls that do not imply a requested direction of travel. For example, CFSS calls, EMS (Code Blue) calls, etc.
- Emergency power status:
 - Normal: Car is operating under normal power.
 - Run: Car is running under emergency power.
 - Recall: Car is recalling to emergency power recall floor.
 - Freeze: Car stopped immediately because of power loss.
 - Recall next floor: Car is recalling to emergency power recall floor — designated as the next floor in the current direction of travel.
- Seismic mode status:
 - Normal: No seismic (earthquake) activity detected.
 - On: Seismic activity detected. Car operating as programmed in iView.
 - Off: Seismic mode is not active.
- Load weigher status: Report of load currently in car.
- Swing operation indicator: If lighted, a special set of hall calls (a swing riser) for this car has been activated. The car will not respond to hall calls registered to the group.
- Sabbath operation:
 - On: Sabbath operation is active. In Sabbath operation, the car will service floors as defined through iView in a semi-automated fashion, requiring no car calls to be registered.
 - Off: Sabbath operation not active.
- Flood operation:
 - On: The car is operating in Flood mode with floor access restrictions as defined in iView.
 - Off: Flood operation is not active.
- Auto-stop:
 - On: The car is observing auto-stop operation as defined in iView. Generically, auto-stop requires that a car traveling past a specified floor pause and cycle its doors so that the occupants may be observed.
 - Off: Auto-stop mode is not active.

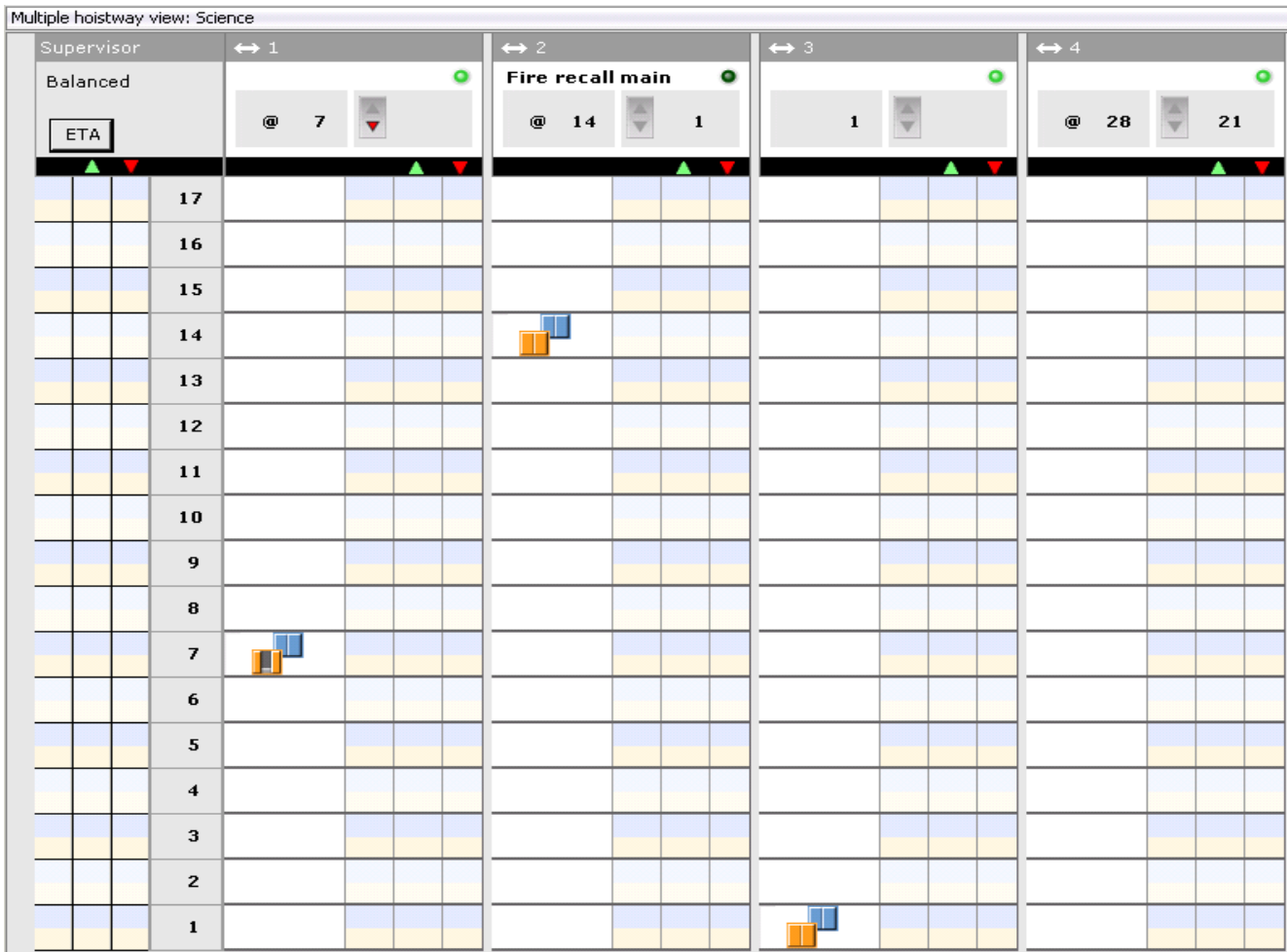
Note

Displayed indicators will vary from car to car depending upon available options and operating modes. For example, if a car does not have Flood operation, Flood status will not be displayed.

Multiple Hoistway View Explanation

This view provides hoistway position, call information, and more for all cars in the selected group.

- Select Multiple Hoistway View/Group name from the View menu.



Supervisor Information

The Supervisor column of the Hoistway View screen provides traffic mode and Estimated Time of Arrival information for the group.

- **Traffic Mode:** (Balanced in this example) Displays the current mode through which the elevator group is servicing traffic within the building. This mode may be selected manually, by timer, or automatically according to iCue analysis of realtime traffic conditions.
 - **Balanced:** All elevator traffic within the building is receiving equal priority from the group.
 - **Lobby Peak:** Designated lobby floors are receiving priority attention. Generally active during morning arrival times when traffic is heaviest departing the lobby for other floors.
 - **Demand Up Peak:** Upward bound traffic is given priority. If assigned dynamically, made active when approximately 80% of building traffic is in the up direction.
 - **Demand Down Peak:** Downward bound traffic is given priority. If assigned dynamically, made active when approximately 80% of building traffic is in the down direction.
 - **Auto-mode (i.e., Balanced, Lobby peak, Dmd up, Dmd down):** The traffic mode is being controlled dynamically by iCue according to real time traffic analysis and learned building traffic patterns.
- **ETA:** Estimated Time of Arrival. The time, in whole seconds, in which iCue estimates a registered hall call will be serviced. ETA counts in the blue zone indicate a rear hall call. ETA counts in the orange zone indicate a front hall call.
 - **Up / Down Columns:** When a hall call is placed, its ETA will be displayed in the Up or Down (as appropriate) hall column next to the floor from which the car was placed. The ETA will count down to the arrival of the responding car.
 - **Non-directional:** An ETA in the left-most column indicates a non-directional “hall” call has been placed at this floor. Non-directional calls are calls that do not indicate a requested direction of travel. For example, CFSS calls, EMS calls, etc.

Supervisor			
Balanced			
ETA			
 			
			17
			16
			15
			14
			13
			12
			11
			10
			9
			8
			7
			6
			5
			4
			3

- **ETA Filtering:** Clicking the ETA button opens up a dialog that allows you to filter ETA information as desired.
- **CFSS calls:** Allows you to choose how CFSS ETA counts are displayed:
 - **Hide CFSS call data:** Do not display CFSS call ETA.
 - **View CFSS 1 data:** Display ETA and wait time data as selected for CFSS 1 only.
 - **View CFSS 2 data:** Display ETA and wait time data as selected for CFSS 2 only.
- **Hall calls:** Allows you to select how hall call ETA counts are displayed.
 - **Hide hall call data:** Do not display hall call ETA.
 - **View main data:** Display ETA and wait time data as selected for main hall calls only.
 - **View AUX data:** Display ETA and wait time data as selected for auxiliary hall calls only.

ETA

The screenshot shows the 'ETA / Wait filter' dialog box with the 'CFSS calls' tab selected. The 'Hide CFSS call data' radio button is selected. Below it, there are two sections: 'View CFSS 1 data' and 'View CFSS 2 data'. Each section contains a table with 'ETA' and 'Wait times' columns, each having 'Front' and 'Rear' checkboxes.

View CFSS 1 data	
ETA	Wait times
☐ Front	☐ Front
☐ Rear	☐ Rear

View CFSS 2 data	
ETA	Wait times
☐ Front	☐ Front
☐ Rear	☐ Rear

The screenshot shows the 'ETA / Wait filter' dialog box with the 'Hall calls' tab selected. The 'Hide hall call data' radio button is selected. Below it, there are two sections: 'View main data' and 'View AUX data'. Each section contains a table with 'ETA' and 'Wait' columns, each having 'Front' and 'Rear' checkboxes.

View main data	
ETA	Wait times
☐ Front	☐ Front
☐ Rear	☐ Rear

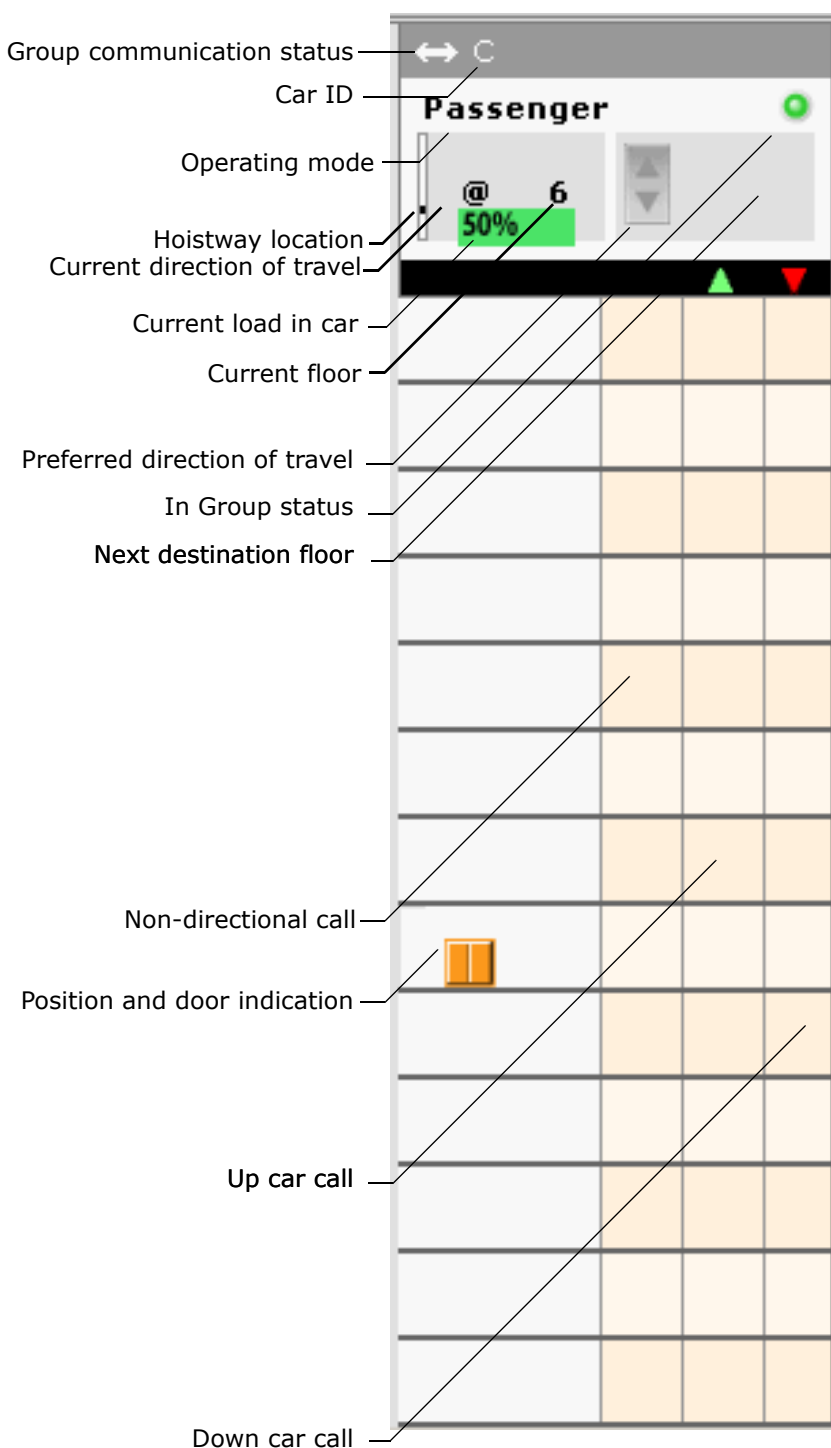
View AUX data	
ETA	Wait
☐ Front	☐ Front
☐ Rear	☐ Rear

Per Car

Per car, the Hoistway View screen provides:

- Comm status: As shown when communication is good. Separated by red slash and offset if communication is lost.
- Car ID: Car label.
- Operating mode: Please refer to “Operating Modes” on page 3-2.

Please refer to “Detailed View Explanation” on page 3-12 for remaining call out descriptions.

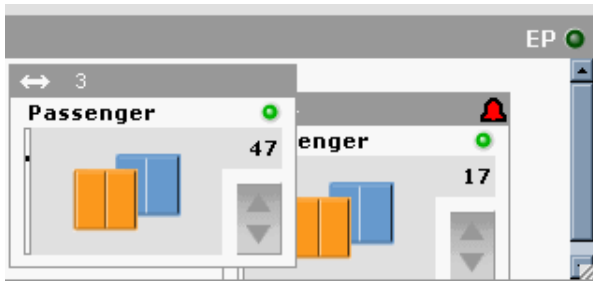


Display Customization

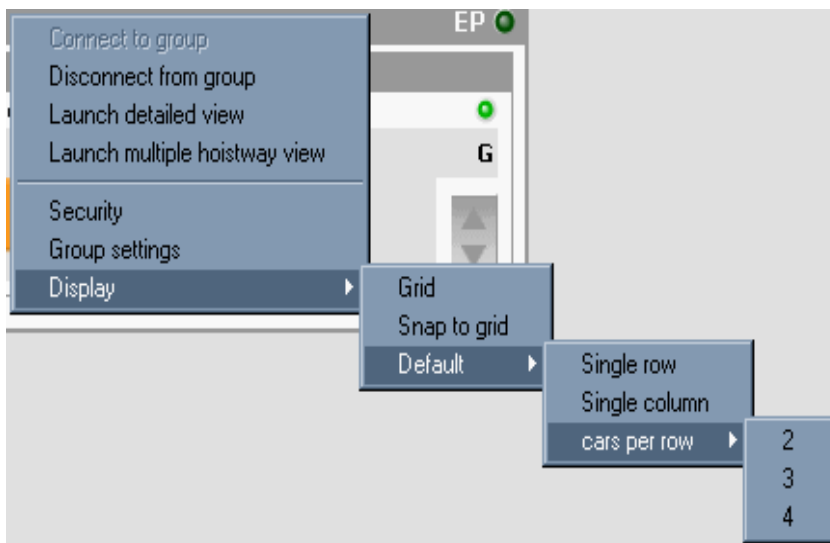
There are options to modify the screen presentation of the iMonitor “overview” and options to customize the screen presentation when iMonitor is used to drive a lobby display.

Customizing the Overview

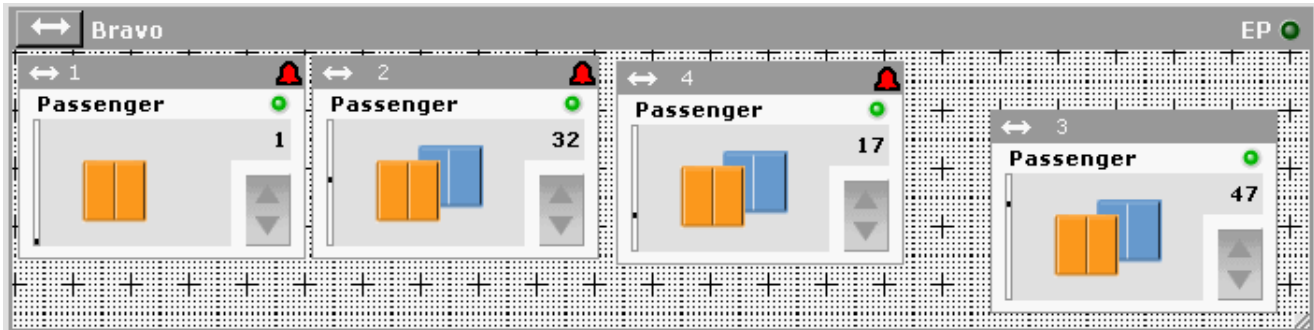
While in overview, you may click/drag the lower right corner of a group pane to resize it as desired. After resizing, you can drag individual cars to arrange them in any order or pattern. Click and drag in the top bar of a car window and drag it to a new location.



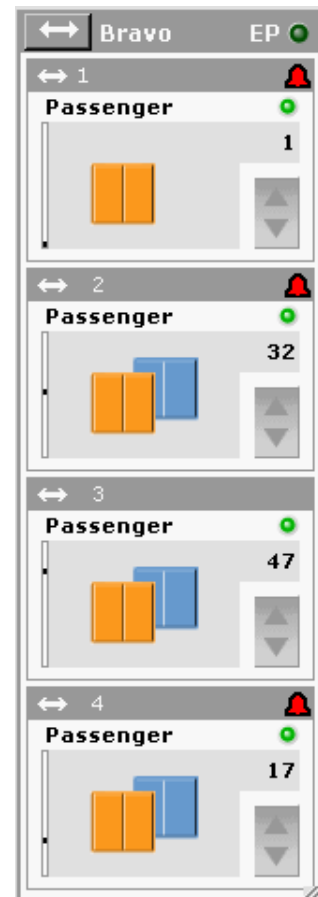
From the overview, you may customize your iMonitor display by right-clicking in the top bar, selecting Display, then selecting the display option:



- Grid: Displays a reference grid behind the cars:



- Snap to grid: Causes a dragged car to snap to a grid marker when released.
- Default 1 row: Reverts the display to the traditional single row display with cars in 1, 2, 3, 4, etc. order.
- Default single row/column: Displays cars in a numerically ordered row or column.
- Display cars 2 (3 or 4) per row: Displays the cars in rows of two, three, or four:

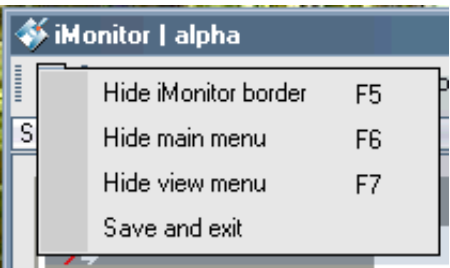


3

Lobby Display

In the View menu, there are selections used to set up the display for use in the building lobby.

- Hide iMonitor border: Conceals the border surrounding the iMonitor display.
- Hide main menu: Conceals the toolbar menu selections.
- Hide view menu: Conceals the view selecting icons in the toolbar.



To reveal any hidden screen element, simply press the F5/F6/F7 shortcut key.

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